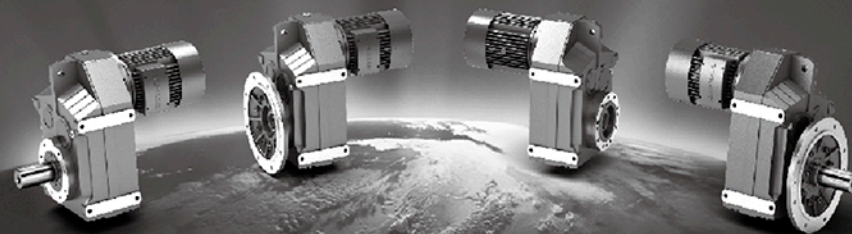




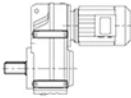

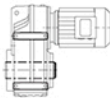

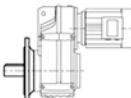

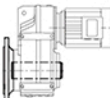

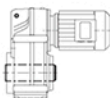

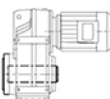

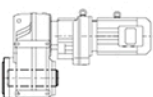



EF Series

Reductor de Engranaje Helicoidal de Eje Paralelo
Parallel Shaft Helical Gear Motor

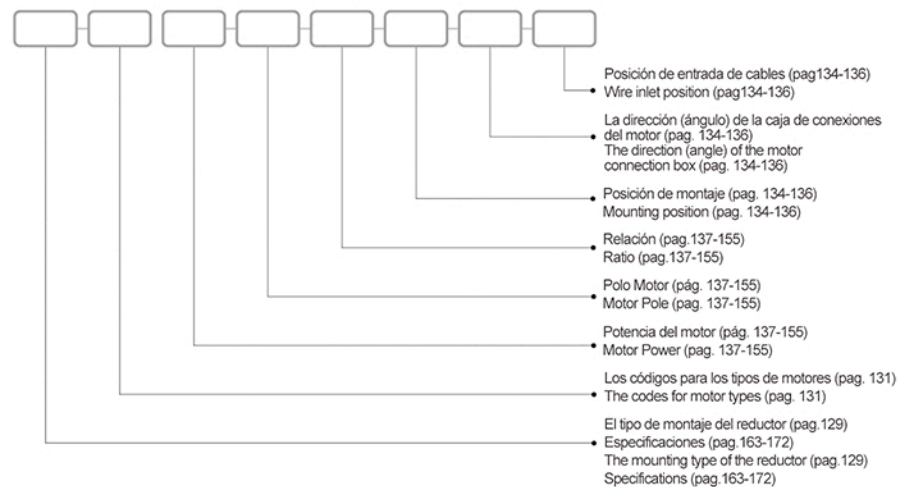




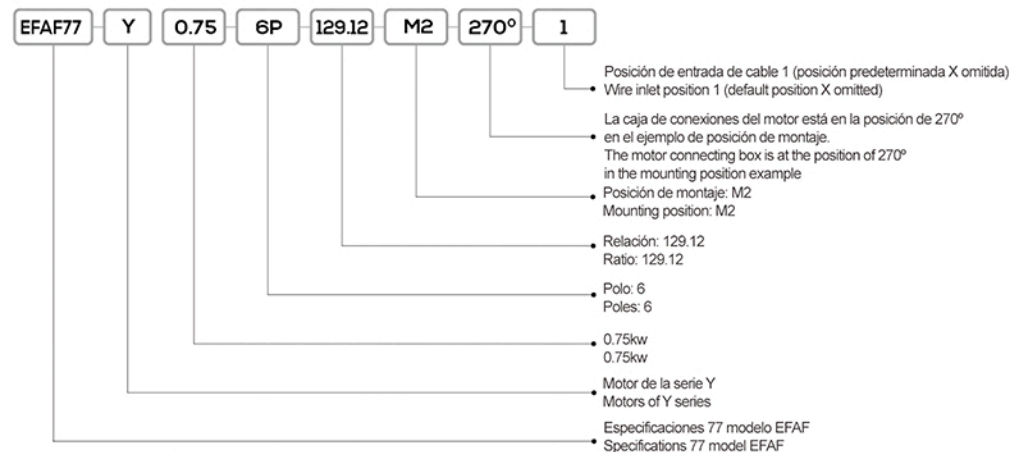
5 Tipo de montaje:
Mounting Type:

EF Reductor de engranaje helicoidal de eje paralelo montado con patas Foot-mounted parallel shaft helical gear reductor	 
EFAB Reductor de engranajes helicoidales de eje paralelo con patas y eje hueco Foot-mounted parallel shaft helical gear reductor with hollow shaft	 
EFF Reductor de engranajes helicoidales de ejes paralelos en versión con brida B5 Parallel shaft helical gear reductor in B5 flange-mounted version	 
EFAF Reductor de ejes paralelos en versión con brida B5 y eje hueco Parallel shaft helical gear reductor in B5 flange-mounted version with hollow shaft	 
EFA Reductor de engranajes helicoidales de eje paralelo con eje hueco Parallel shaft helical gear reductor with hollow shaft	 
EFAZ Reductor de engranajes helicoidales de ejes paralelos en versión con brida B14 con eje hueco Parallel shaft helical gear reductor in B14 flange-mounted version with hollow shaft	 
EF..ER Combinación de reductor serie EF y reductor serie ER..7 Combination of EF series reductor and ER..7 series reductor	 
EF..S Estilo de entrada de eje, en otras palabras, reductor de engranajes helicoidales de eje paralelo equipado con eje de entrada pero sin motor Shaft-input style, in another word, parallel shaft helical gear reductor equipped with input shaft but without the motor	 

6 Instrucciones para modelos
Instructions for Models



Ejemplo
Sample





Notas/Notes

1. El estilo de entrada de eje no está equipado con ningún motor.
2. Los motores de la serie Y se suministran con un grado de protección IP54 a menos que se especifique lo contrario.
3. La posición de montaje de M1 como se muestra en el ejemplo de posición de montaje (pag. 134-136) es la forma predeterminada cuando se suministra a menos que se especifique lo contrario.
4. 0° como se muestra en el ejemplo de posición de montaje (pag. 134-136) es el ángulo predeterminado de la caja de conexiones cuando se suministra a menos que se especifique lo contrario.

1. The shaft- input style is not equipped with any motor
2. Motors of Y series are supplied with protection grade of IP54 unless otherwise specified.
3. The mounting position of M1 as shown in the mounting position example (pag. 134-136) is the default way when supplying unless otherwise specified.
4. 0° as shown in the mounting position example (pag. 134-136) is the default connection box angle when supplying unless otherwise specified.

7 Códigos para tipos de motores:

Codes for Motor Types:

Y	Serie Y Y Series	YB	Motor a prueba de llamas Flameproof Motor	Z	Motor de corriente continua Direct Current Motor
YEJ	Freno de Motor Brake Motor	YG	Motor de rodillo Roll Motor	YVP	Motor de frecuencia variable Variable Frequency Motor
YVPEJ	Frenado por transducción Transduction braking	YGP	Camino del rodillo de transducción Transduction roller way	YZR	Elevación metalúrgica Metallurgy hoisting

8 Explicación del ejemplo de posición de montaje

Explanation of mounting position example



Válvula de ventilación
Breather valve



Tapón de nivel de aceite
Oil Level plug



Tapón de drenaje de aceite
Oil drain plug

9 Explicación de la lista de selección de parámetros

Explanation of Parameter Selection List

Velocidad de salida Output speed	Par de salida Output torque	Ratio Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
(r/min)	(Nm)	(i)	(fs)		
0.75kW					
25	2810	57.33	1.05		
28	2530	51.50	1.15	EF 87	4
32	2270	46.31	1.25	EFA 87	4
36	1970	40.19	1.40	EFF 87	4
41	1770	35.99	1.50	EFAF87	4
49	1460	29.86	1.70		

1. Los tipos de máquina en la lista de selección de parámetros pueden coincidir con cualquier relación de transmisión en la columna
2. Los parámetros de esta lista también se ajustan a los modelos EFAB, EFAZ, EFH, EFHB, EFHZ.
1. The Machine types in the parameter selection list can match any transmission ratio in the column
2. The parameters in this list also fits model EFAB, EFAZ, EFH, EFHB, EFHZ.

10 Potencia de entrada y par máximo de la serie EF

Input power and maximum torque of EF series

Tipo Type		EF37	EF47	EF57	EF67	EF77
Estructura Structure		EF, EFA, EFF, EFAF, EFAZ, EFAB, EFH, EFHF, EFHZ, EFHB				
Clasificación de potencia de entrada Input power rating (kw)		0.12 ~ 3	0.12 ~ 3	0.12 ~ 5.5	0.18 ~ 5.5	0.37 ~ 11
Ratio		84 ~ 128.51	4.67 ~ 179.53	4.75 ~ 199.70	3.94 ~ 229.10	3.75 ~ 281.71
Par máximo Maximum Torque (Nm)		200	380	600	820	1500

Tipo Type		EF87	EF97	EF107	EF127	EF157	EF167
Estructura Structure		EF, EFA, EFF, EFAF, EFAZ, EFAB, EFH, EFHF, EFHZ, EFHB					
Clasificación de potencia de entrada Input power rating (kw)		0.75 ~ 22	1.1 ~ 30	2.2 ~ 45	7.5 ~ 90	11 ~ 200	11 ~ 200
Ratio		3.70 ~ 273.43	3.80 ~ 276.99	4.91 ~ 251.75	4.99 ~ 174.86	11.92 ~ 267.43	7.41 ~ 183.18
Par máximo Maximum Torque (Nm)		3000	4300	7840	12000	18000	32000

- *El par máximo indica el valor máximo del par máximo correspondiente a diferentes relaciones de transmisión en esta especificación.
*The maximum torque indicates the maximum value of maximum torque corresponding to different transmission ratios in this specification.

11 Forma de peso de la máquina principal de la serie EF

Main machine weight form of EF series

Tipo Type		EF37	EF47	EF57	EF67	EF77	EF87	EF97	EF107	EF127	EF157	EF167
Peso Weight(kg)		19	25	29	35	62.5	109	182	259	431	679	1030
Tipo Type		EFF37	EFF47	EFF57	EFF67	EFF77	EFF87	EFF97	EFF107	EFF127	EFF157	
Peso Weight(kg)		21	28	35	41	72.5	124	215	286	476	785	
Tipo Type		EFA37	EFA47	EFA57	EFA67	EFA77	EFA87	EFA97	EFA107	EFA127	EFA157	EFA167
Peso Weight(kg)		19	25	29	32	58.5	104	176	243	396	658	1010
Tipo Type		EFAF37	EFAF47	EFAF57	EFAF67	EFAF77	EFAF87	EFAF97	EFAF107	EFAF127	EFAF157	
Peso Weight(kg)		20	27	34	39	65.5	117	197	263	431	717	

- Nota:
1) El peso de la máquina principal de EFAZ, EFAT, EFAB, EFH, EFHZ, EFHT, EFHB es similar al de EFA.
2) El peso de la máquina principal de EFHF es similar al de EFAF.

- Nota:
1) The weight of main machine of EFAZ, EFAT, EFAB, EFH, EFHZ, EFHT, EFHB is similar to that of EFA.
2) The weight of main machine of EFHF is similar to that of EFAF.



12 Forma de cantidad de aceite lubricante de la serie EF
Lubricating oil quantity form of EF series

EF..

Tipo Type	Cantidad de llenado en litros (L) - Fill quantity in liters (L)					
	M1	M2	M3	M4	M5	M6
EF37	1	1.2	0.7	1.2	1	1.1
EF47	1.5	1.8	1.1	1.9	1.5	1.7
EF57	2.6	3.7	2.1	3.5	2.8	2.9
EF67	2.7	3.8	1.9	3.8	2.9	3.2
EF77	5	7.3	4.3	8	6	6.3
EF87	10	13	7.7	13.8	10.8	11
EF97	18.5	22.5	12.6	25.2	18.5	20
EF107	24.5	32	19.5	37.5	27	27
EF127	40.5	55	34	61	46.5	47
EF157	69	104	63	105	86	78
EF167	115	175	105	180	130	120

EFA... EF4F... EFAZ... EFAT... EFAB... EFH... EFHF... EFHZ... EFHT... EFHB..

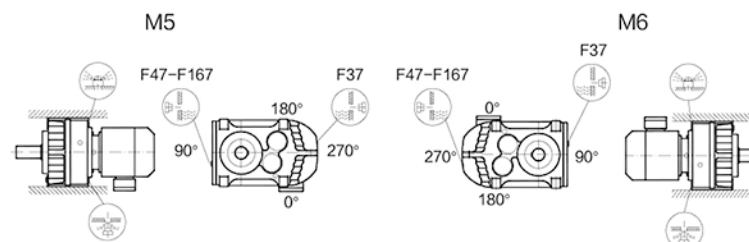
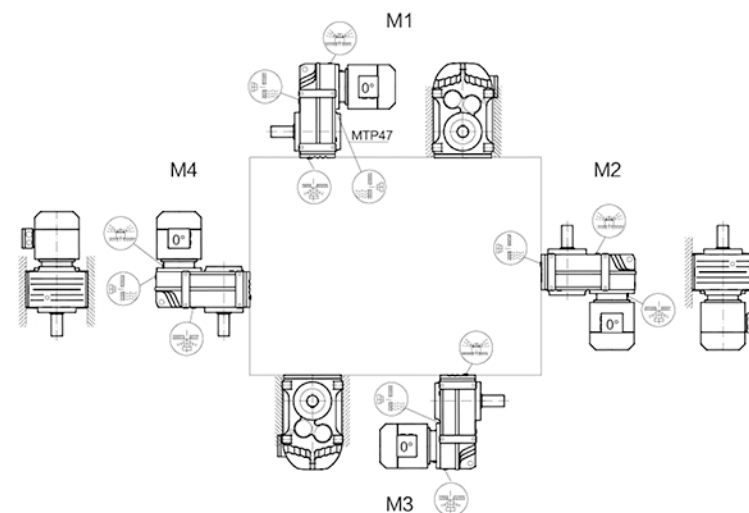
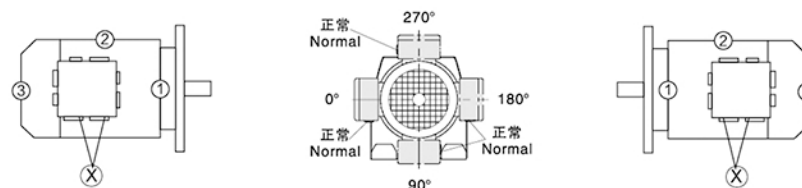
Tipo Type	Cantidad de llenado en litros (L) - Fill quantity in liters (L)					
	M1	M2	M3	M4	M5	M6
EF..37	1	1.2	0.7	1.2	1	1.1
EF..47	1.5	1.8	1.1	1.9	1.5	1.7
EF..57	2.7	3.8	2.1	3.6	2.9	3
EF..67	2.7	3.8	1.9	3.8	2.9	3.2
EF..77	5	7.3	4.3	8	6	6.3
EF..87	10	13	7.7	13.8	10.8	11
EF..97	18.5	22.5	12.6	25	18.5	20
EF..107	24.5	32	19.5	37.5	27	27
EF..127	39	55	34	61	45	46.5
EF..157	68	103	62	104	85	77
EF..167	115	175	105	180	130	120

EFF..

Tipo Type	Cantidad de llenado en litros (L) - Fill quantity in liters (L)					
	M1	M2	M3	M4	M5	M6
EFF37	1	1.2	0.7	1.3	1	1.1
EFF47	1.6	1.9	1.1	1.9	1.5	1.7
EFF57	2.8	3.8	2.1	3.7	2.9	3
EFF67	2.7	3.8	1.9	3.8	2.9	3.2
EFF77	5.1	7.3	4.3	8.1	6	6.3
EFF87	10.3	13.2	7.8	14.1	11	11.2
EFF97	19	22.5	12.6	25.5	18.9	20.5
EFF107	25.5	32	19.5	38.5	27.5	28
EFF127	41.5	56	34	63	46.5	49
EFF157	72	105	64	106	87	79
EFF167	115	175	105	180	130	120

EF/EFAB37-167

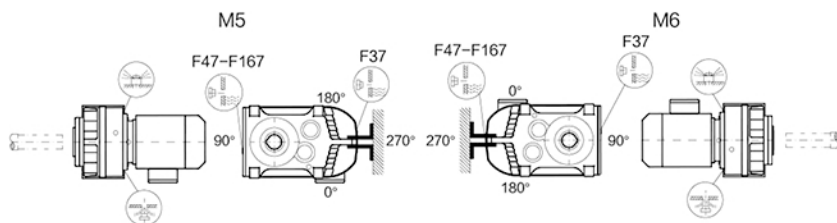
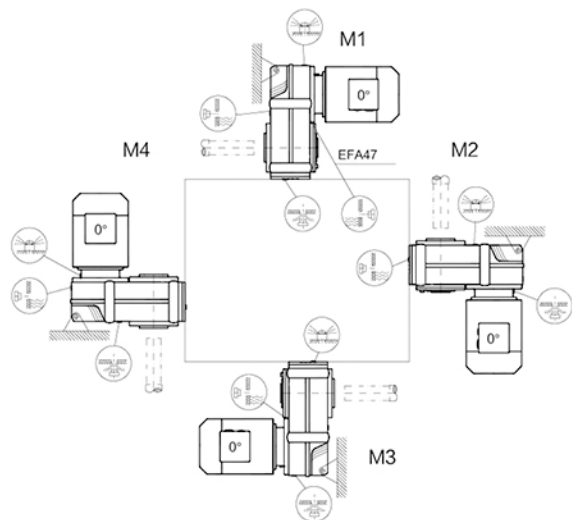
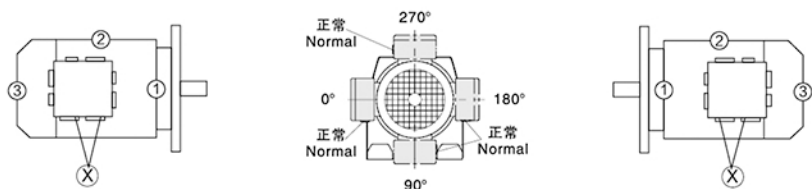
Ejemplo de posición de montaje - Mounting position example





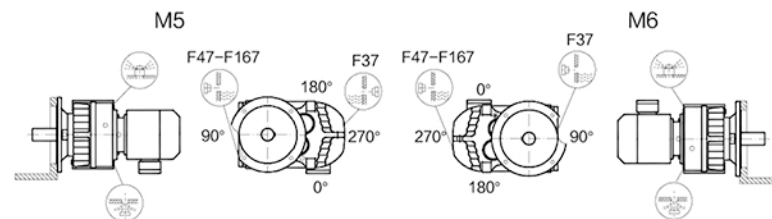
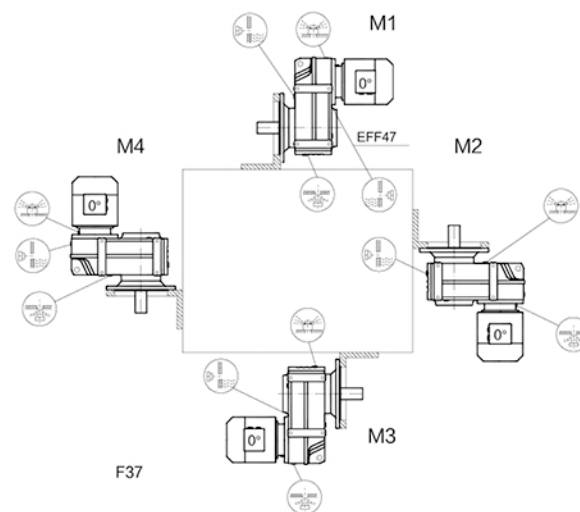
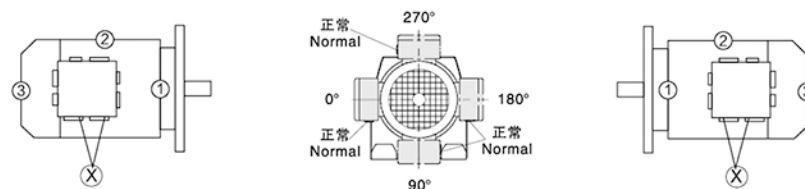
EFA37-167

Ejemplo de posición de montaje - Mounting position example



EFF/EFAF/EFAZ37-167

Ejemplo de posición de montaje - Mounting position example





Forma de parámetro de selección del modelo de potencia constante de la serie EF
Constant power model selection parameter form of EF series

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(f _s)		
0.12kW					
0.06	15100	22076	0.80		
0.07	12900	18792	0.95		
0.08	11300	16533	1.05	EF 127ER77	4
0.09	10200	14873	1.20	EFA 127ER77	4
0.11	8910	12997	1.35	EFF 127ER77	4
0.12	7850	11458	1.55	EFAF127ER77	4
0.14	6900	10063	1.75		
0.09	10100	14724	0.80		
0.12	7810	11398	1.00		
0.14	6860	10009	1.10		
0.16	5790	8452	1.35		
0.18	5230	7630	1.45	EF 107ER77	4
0.21	4600	6717	1.65	EFA 107ER77	4
0.23	4070	5944	1.90	EFF 107ER77	4
0.27	3590	5235	2.1	EFAF107ER77	4
0.30	3180	4645	2.4		
0.35	2750	4020	2.8		
0.39	2440	3564	3.1		
0.22	4380	6397	1.00	EF 97ER57	4
0.25	3850	5624	1.10	EFA 97ER57	4
0.28	3380	4937	1.25	EFF 97ER57	4
0.32	2980	4355	1.45	EFAF97ER57	4
0.36	2670	3896	1.60	EF 97ER57	4
0.42	2280	3329	1.90	EFA 97ER57	4
0.46	2060	3005	2.1	EFF 97ER57	4
0.56	1690	2466	2.5	EFAF97ER57	4
0.33	2870	4189	1.05	EF 87ER57	4
0.38	2540	3700	1.20	EFA 87ER57	4
				EFF 87ER57	4
				EFAF87ER57	4
0.41	2310	3364	1.30		
0.43	2200	3210	1.35		
0.48	1980	2890	1.50		
0.55	1720	2516	1.75	EF 87ER57	4
0.65	1460	2134	2.1	EFA 87ER57	4
0.72	1330	1934	2.3	EFF 87ER57	4
0.81	1170	1711	2.6	EFAF87ER57	4
0.96	990	1450	3.0		
1.1	880	1281	3.4		
1.2	785	1143	3.8		
0.53	1790	2611	0.85	EF 77ER37	4
0.60	1590	2315	0.95	EFA 77ER37	4
0.68	1410	2056	1.05	EFF 77ER37	4
				EFAF77ER37	4
0.81	1170	1711	1.30		
0.90	1060	1543	1.40		
1.0	930	1354	1.60	EF 77ER37	4
1.2	820	1203	1.80	EFA 77ER37	4
1.3	725	1057	2.1	EFF 77ER37	4
1.5	625	913	2.4	EFAF77ER37	4
1.7	555	810	2.7		
2.0	485	710	3.1		
0.97	980	1430	0.85		
1.1	870	1272	0.95		
1.3	755	1103	1.10		
1.4	665	970	1.25	EF 67ER37	4
1.6	590	858	1.40	EFA 67ER37	4
1.8	520	757	1.60	EFF 67ER37	4
2.2	440	640	1.85	EFAF67ER37	4
2.4	395	573	2.1		
2.7	350	509	2.4		
3.2	300	435	2.8		

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(f _s)		
0.12kW					
1.6	580	849	1.05		
1.9	505	734	1.20	EF 57ER37	4
2.2	440	644	1.35	EFA 57ER37	4
2.5	380	557	1.55	EFF 57ER37	4
2.7	345	507	1.75	EFAF57ER37	4
3.1	305	445	1.95		
3.3	290	426	2.1		
3.6	260	382	2.3	EF 57ER37	4
4.2	225	330	2.7	EFA 57ER37	4
4.7	205	298	2.9	EFF 57ER37	4
5.3	180	262	3.3	EFAF57ER37	4
2.5	375	547	1.05	EF 47ER17	4
2.9	325	476	1.25	EFA 47ER17	4
3.3	290	422	1.40	EFF 47ER17	4
				EFAF47ER17	4
2.7	355	518	1.15		
2.8	340	493	1.20		
3.2	295	429	1.35	EF 47ER17	4
3.6	260	383	1.50	EFA 47ER17	4
4.1	230	335	1.75	EFF 47ER17	4
4.7	200	295	2.0	EFAF47ER17	4
5.5	172	251	2.3		
4.3	220	322	0.90	EF 37ER17	4
5.0	190	277	1.05	EFA 37ER17	4
5.7	166	242	1.20	EFF 37ER17	4
6.3	151	221	1.30	EFAF37ER17	4
4.3	225	326	0.90		
4.9	195	285	1.00	EF 37ER17	4
5.6	171	250	1.15	EFA 37ER17	4
6.3	150	219	1.35	EFF 37ER17	4
7.5	127	186	1.55	EFAF37ER17	4
8.3	114	167	1.75		
7.0	165	199.70	3.6	EF 57	4
7.6	151	183.60	4.0	EFA 57	4
8.8	130	157.09	4.6	EFF 57	4
10	112	136.16	5.3	EFAF57	4
7.7	148	179.53	2.7	EF 47	4
8.4	136	165.06	2.9	EFA 47	4
9.8	116	141.22	3.4	EFF 47	4
11	101	122.41	4.0	EFAF47	4
11	106	128.51	1.90		
12	97	117.88	2.1		
14	83	100.36	2.4		
16	71	86.53	2.8		
17	66	80.65	3.0		
20	58	70.50	3.4		
21	54	66.09	3.7	EF 37	4
24	48	58.32	4.2	EFA 37	4
25	45	54.54	4.4	EFF 37	4
27	43	51.70	4.7	EFAF37	4
30	39	47.02	5.2		
32	36	43.83	5.5		
36	32	38.31	6.3		
39	30	35.91	6.8		
44	26	31.69	7.7		
49	23	28.10	8.6		

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(f _s)		
0.12kW					
59	19	23.63	10		
68	17	20.57	12		
72	16	19.27	13		
82	14	17.03	14		
88	13	15.81	15		
97	12	14.33	17		
108	11	12.87	19		
125	9.1	11.08	21	EF 37	4
133	8.6	10.42	22	EFA 37	4
155	7.4	8.97	24	EFF 37	4
174	6.6	8.01	26	EFAF37	4
184	6.2	7.57	23		
203	5.7	6.86	25		
226	5.1	6.16	27		
262	4.4	5.31	29		
279	4.1	4.99	29		
323	3.5	4.30	31		
362	3.2	3.84	33		
0.18kW					
0.11	13600	12997	0.90	EF 127ER77	4
0.12	12000	11458	1.00	EFA 127ER77	4
0.14	10500	10063	1.15	EFF 127ER77	4
0.16	9280	8853	1.30	EFAF127ER77	4
0.18	7880	7520	1.50		
0.21	7060	6735	1.70		
0.16	8860	8452	0.85		
0.18	8000	7630	0.95		
0.21	7040	6717	1.10	EF 107ER77	4
0.23	6230	5944	1.25	EFA 107ER77	4
0.27	5490	5235	1.40	EFF 107ER77	4
0.30	4870	4645	1.60	EFAF107ER77	4
0.35	4210	4020	1.80		
0.39	3740	3564	2.1		
0.45	3270	3118	2.4	EF 107ER77	4
0.51	2850	2724	2.7	EFA 107ER77	4
0.58	2490	2377	3.1	EFF 107ER77	4
0.67	2180	2080	3.5	EFAF107ER77	4
0.32	4560	4355	0.95	EF 97ER57	4
				EFA 97ER57	4
				EFF 97ER57	4
				EFAF97ER57	4
0.36	4050	3863	1.05		
0.41	3520	3361	1.20		
0.48	3030	2895	1.40		
0.55	2670	2547	1.60	EF 97ER57	4
0.62	2360	2249	1.80	EFA 97ER57	4
0.70	2070	1979	2.1	EFF 97ER57	4
0.81	1800	1722	2.4	EFAF97ER57	4
0.91	1610	1532	2.7		
1.0	1390	1327	3.1		
1.2	1230	1173	3.5		
0.48	3070	2926	1.00		
0.55	2640	2521	1.15		
0.63	2310	2200	1.30		
0.71	2040	1951	1.45		
0.81	1800	1715	1.65	EF 87ER57	4
0.93	1570	1500	1.90	EFA 87ER57	4
1.1	1360	1302	2.2	EFF 87ER57	4
1.2	1210	1150	2.5	EFAF87ER57	4
1.4	1060	1008	2.8		
1.6	940	895	3.2		
1.8	820	779	3.7		

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(f _s)		
0.18kW					
0.90	1620	1543	0.95		
1.0	1420	1354	1.05		
1.2	1260	1203	1.20	EF 77ER37	4
1.3	1110	1057	1.35	EFA 77ER37	4
1.5	960	913	1.55	EFF 77ER37	4
1.7	850	810	1.75	EFAF77ER37	4
2.0	745	710	2.0		
2.3	645	615	2.3		
1.6	900	858	0.90		
1.8	795	757	1.05		
2.2	670	640	1.20	EF 67ER37	4
2.4	600	573	1.35	EFA 67ER37	4
2.7	535	509	1.55	EFF 67ER37	4
3.2	455	435	1.80	EFAF67ER37	4
3.6	405	386	2.0		
2.8	520	497	1.55		
3.1	470	449	1.75		
3.6	405	385	2.0	EF 67ER37	4
4.1	355	339	2.3	EFA 67ER37	4
4.7	310	296	2.6	EFF 67ER37	4
5.3	275	262	3.0	EFAF67ER37	4
5.9	245	234	3.3		
7.0	210	200	3.9		
2.5	585	557	1.05		
2.7	530	507	1.15	EF 57ER37	4
3.1	465	445	1.30	EFA 57ER37	4
3.6	405	385	1.50	EFF 57ER37	4
4.1	355	338	1.70	EFAF57ER37	4
3.3	445	426	1.35		
3.6	400	382	1.50		
4.2	345	330	1.75	EF 57ER37	4
4.7	310	298	1.90	EFA 57ER37	4
5.3	275	262	2.2	EFF 57ER37	4
6.2	235	226	2.5	EFAF57ER37	4
7.0	210	200	2.9		
3.8	385	369	1.05	EF 47ER17	4
4.3	340	326	1.15	EFA 47ER17	4



Velocidad de salida Output speed	Par de salida Output torque	Ratio Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fs]		
0.18kW					
4.3	405	199.70	1.50	EF 57	
4.6	370	183.60	1.60	EFA 57	6
5.4	320	157.09	1.90	EFF 57	6
6.2	275	136.16	2.2	EFF 57	6
6.7	255	127.27	2.3	EFAF57	6
7.7	220	110.01	2.7		
7.0	245	199.70	2.4		
7.6	225	183.60	2.6	EF 57	4
8.8	194	157.09	3.1	EFA 57	4
10	168	136.16	3.6	EFF 57	4
11	157	127.27	3.8	EFAF57	4
4.7	365	179.53	1.10		
5.1	335	165.06	1.20	EF 47	6
6.0	285	141.22	1.40	EFA 47	6
6.9	250	122.41	1.60	EFF 47	6
7.4	230	114.41	1.75	EFAF47	6
7.7	220	179.53	1.80		
8.4	205	165.06	1.95	EF 47	4
9.8	175	141.22	2.3	EFA 47	4
11	151	122.41	2.6	EFF 47	4
12	141	114.41	2.8	EFAF47	4
7.2	240	117.88	0.85		
8.5	205	100.36	1.00	EF 37	6
9.8	175	86.53	1.15	EFA 37	6
11	163	80.65	1.25	EFF 37	6
12	143	70.50	1.40	EFAF37	6
11	159	128.51	1.25		
12	146	117.88	1.35		
14	124	100.36	1.60		
16	107	86.53	1.85		
17	100	80.65	2.0		
20	87	70.50	2.3		
21	82	66.09	2.4	EF 37	4
24	72	58.32	2.8	EFA 37	4
25	67	54.54	3.0	EFF 37	4
27	64	51.70	3.1	EFAF37	4
30	58	47.02	3.4		
32	54	43.83	3.7		
36	47	38.31	4.2		
39	44	35.91	4.5		
44	39	31.69	5.1		
49	35	28.10	5.8		
59	29	23.63	6.8		
68	25	20.57	7.9		
72	24	19.27	8.4		
82	21	17.03	9.5		
88	20	15.81	10		
97	18	14.33	11		
108	16	12.87	13		
125	14	11.08	14	EF 37	4
133	13	10.42	14	EFA 37	4
155	11	8.97	16	EFF 37	4
174	9.9	8.01	17	EFAF37	4
184	9.4	7.57	15		
203	8.5	6.86	17		
226	7.6	6.16	18		
262	6.6	5.31	19		
279	6.2	4.99	19		
323	5.3	4.30	21		
362	4.7	3.84	22		

Velocidad de salida Output speed	Par de salida Output torque	Ratio Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fs]		
0.25kW					
0.16	13000	8853	0.95		
0.18	11000	7520	1.10	EF 127ER77	4
0.21	9860	6735	1.20	EFA 127ER77	4
0.23	8680	5926	1.40	EFF 127ER77	4
0.27	7510	5128	1.60	EFAF127ER77	4
0.31	6630	4525	1.80		
0.23	8710	5944	0.90		
0.27	7670	5235	1.00	EF 107ER77	4
0.30	6800	4645	1.15	EFA 107ER77	4
0.35	5890	4020	1.30	EFF 107ER77	4
0.39	5220	3564	1.45	EFAF107ER77	4
0.45	4570	3118	1.70		
0.51	3990	2724	1.95	EF 107ER77	4
0.58	3480	2377	2.2	EFA 107ER77	4
0.67	3050	2080	2.5	EFF 107ER77	4
0.76	2680	1831	2.9	EFAF107ER77	4
0.98	2070	1416	3.7		
0.48	4240	2895	1.00		
0.55	3730	2547	1.15		
0.62	3290	2249	1.30		
0.70	2900	1979	1.50	EF 97ER57	4
0.81	2520	1722	1.70	EFA 97ER57	4
0.91	2240	1532	1.90	EFF 97ER57	4
1.0	1940	1327	2.2	EFAF97ER57	4
1.2	1720	1173	2.5		
1.4	1500	1025	2.9		
0.71	2860	1951	1.05		
0.81	2510	1715	1.20		
0.93	2200	1500	1.35		
1.1	1910	1302	1.55	EF 87ER57	4
1.2	1680	1150	1.80	EFA 87ER57	4
1.4	1480	1008	2.0	EFF 87ER57	4
1.6	1310	895	2.3	EFAF87ER57	4
1.8	1140	779	2.6		
2.1	990	677	3.0		
1.3	1550	1057	0.95		
1.5	1340	913	1.10		
1.7	1190	810	1.25	EF 77ER37	4
2.0	1040	710	1.45	EFA 77ER37	4
2.3	900	615	1.65	EFF 77ER37	4
2.6	790	538	1.90	EFAF77ER37	4
2.9	705	480	2.1		
3.4	600	410	2.5		
2.4	840	573	1.00	EF 67ER37	4
2.7	745	509	1.10	EFA 67ER37	4
3.2	635	435	1.30	EFF 67ER37	4
				EFAF67ER37	4
2.8	730	497	1.15		
3.1	660	449	1.25		
3.6	565	385	1.45	EF 67ER37	4
4.1	495	339	1.65	EFA 67ER37	4
4.7	435	296	1.90	EFF 67ER37	4
5.3	385	262	2.1	EFAF67ER37	4
5.9	345	234	2.4		
3.6	565	385	1.05	EF 57ER37	4
4.1	495	338	1.20	EFA 57ER37	4
5.4	380	259	1.60	EFF 57ER37	4
6.9	295	201	2.0	EFAF57ER37	4

Velocidad de salida Output speed	Par de salida Output torque	Ratio Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fs]		
0.25kW					
3.6	560	382	1.05		
4.2	485	330	1.25		
4.7	435	298	1.35	EF 57ER37	4
5.3	385	262	1.55	EFA 57ER37	4
6.2	330	226	1.80	EFF 57ER37	4
7.0	295	200	2.0	EFAF57ER37	4
8.2	250	170	2.4		
5.6	365	250	1.10	EF 47ER17	4
6.4	320	218	1.25	EFA 47ER17	4
7.2	280	192	1.40	EFF 47ER17	4
8.1	250	172	1.60	EFAF47ER17	4
5.5	370	251	1.10		
6.3	320	219	1.25	EF 47ER17	4
7.4	275	188	1.45	EFA 47ER17	4
7.8	260	179	1.55	EFF 47ER17	4
9.3	220	149	1.85	EFAF47ER17	4
11	192	131	2.1		
9.6	210	145	0.95		
11	189	129	1.05	EF 37ER17	4
12	174	119	1.15	EFA 37ER17	4
14	144	98	1.40	EFF 37ER17	4
16	127	87	1.55	EFAF37ER17	4
3.0	790	281.71	1.90		
3.3	730	260.59	2.0	EF 77	6
3.8	635	225.79	2.4	EFA 77	6
4.3	555	198.31	2.7	EFF 77	6
4.6	525	186.64	2.9	EFAF77	6
3.7	645	229.10	1.25		
4.3	550	195.48	1.50	EF 67	6
5.0	480	170.93	1.70	EFA 67	6
5.3	450	160.50	1.80	EFF 67	6
6.0	400	142.47	2.0	EFAF67	6
6.1	395	229.10	2.1		
7.1	335	195.48	2.4	EF 67	4
8.1	295	170.93	2.8	EFA 67	4
8.7	275	160.50	3.0	EFF 67	4
9.8	245	142.47	3.4	EFAF67	4
4.3	560	199.70	1.05		
4.6	515	183.60	1.15	EF 57	6
5.4	440	157.09	1.35	EFA 57	6
6.2	380	136.16	1.55	EFF 57	6
6.7	355	127.27	1.70	EFAF57	6
7.7	310	110.01	1.95		
7.0	345	199.70	1.75		
7.6	315	183.60	1.90	EF 57	4
8.8	270	157.09	2.2	EFA 57	4
10	235	136.16	2.6	EFF 57	4
11	220	127.27	2.7	EFAF57	4
13	189	110.01	3.2		
5.1	465	165.06	0.85		
6.0	395	141.22	1.00	EF 47	6
6.9	345	122.41	1.15	EFA 47	6
7.4	320	114.41	1.25	EFF 47	6
8.6	280	98.90	1.45	EFAF47	6
7.7	310	179.53	1.30		
8.4	285	165.06	1.40		
9.8	245	141.22	1.65	EF 47	4
11	210	122.41	1.90	EFA 47	4
12	196	114.41	2.0	EFF 47	4
14	170	98.90	2.4	EFAF47	4
17	144	84.03	2.8		

Velocidad de salida Output speed	Par de salida Output torque	Ratio Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fs]		
0.25kW					
11	220	128.51	0.90		
12	200	117.88	1.00		
14	172	100.36	1.15		
16	149	86.53	1.35		
17	139	80.65	1.45		
20	121	70.50	1.65		
21	114	66.09	1.75		
24	100	58.32	2.0		
25	94	54.54	2.1	EF 37	4
27	89	51.70	2.3	EFA 37	4
30	81	47.02	2.5	EFF 37	4
32	75	43.83	2.7	EFAF37	4
36	66	38.31	3.0		
39	62	35.91	3.2		
44	54	31.69	3.7		
49	48	28.10	4.1		
59	41	23.63	4.9		
68	35	20.57	5.7		
72	33	19.27	6.0		
82	29	17.03	6.8		
88	27	15.81	7.4		
97	25	14.33	8.1		
108	22	12.87	9.0		
125	19	11.08	10	EF 37	4
133	18	10.42	10	EFA 37	4
155	15	8.97	11	EFF 37	4
174	14	8.01	12	EFAF37	4
184	13	7.57	11		
203	12	6.86	12		
226	11	6.16	13		
262	9.1	5.31	14		
279	8.6	4.99	14		
323	7.4	4.30	15		
362	6.6	3.84	16		
0.37kW					
0.21	14700	6735	0.80		
0.23	13000	5926	0.90		
0.27	11200	5128	1.05	EF 127ER77	4
0.31	9910	4525	1.20	EFA 127ER77	4
0.36	8560	3908	1.40	EFF 127ER77	4
0.40	7560	3451	1.60	EFAF127ER77	4



Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio	Factor de Servicio Service Factor [i]	Factor de Servicio Service Factor [fa]	Tipo Type	Polo de Motor Motor Pole
0.37kW						
1.7	1770	810	0.85			
2.0	1550	710	0.95			
2.3	1350	615	1.10		EF 77ER37	4
2.6	1180	538	1.25		EFA 77ER37	4
2.9	1050	480	1.45		EFF 77ER37	4
3.4	900	410	1.65		EFAF77ER37	4
3.8	810	370	1.85			
4.3	710	324	2.1			
3.6	850	386	0.95			
4.1	750	343	1.10		EF 67ER37	4
4.5	675	309	1.20		EFA 67ER37	4
5.3	570	260	1.45		EFF 67ER37	4
5.9	510	234	1.60		EFAF67ER37	4
5.4	565	259	1.05		EF 57ER37	4
6.9	440	201	1.35		EFA 57ER37	4
7.8	390	178	1.55		EFF 57ER37	4
					EFAF57ER37	4
5.3	575	262	1.05			
6.2	495	226	1.20		EF 57ER37	4
7.0	440	200	1.35		EFA 57ER37	4
8.2	370	170	1.60		EFF 57ER37	4
9.1	335	152	1.80		EFAF57ER37	4
10	295	134	2.0			
7.8	390	179	1.00		EF 47ER17	4
9.3	325	149	1.25		EFA 47ER17	4
11	285	131	1.40		EFF 47ER17	4
					EFAF47ER17	4
2.5	1440	273.43	2.1		EF 87	8
2.6	1360	257.97	2.2		EFA 87	8
2.9	1220	231.26	2.5		EFF 87	8
3.4	1050	199.21	2.9		EFAF87	8
3.2	1090	273.43	2.7		EF 87	6
3.4	1030	257.97	2.9		EFA 87	6
3.8	920	231.26	3.2		EFF 87	6
					EFAF87	6
3.9	900	225.79	1.65			
4.5	790	198.31	1.90		EF 77	6
4.7	745	186.64	2.0		EFA 77	6
5.3	665	166.47	2.3		EFF 77	6
6.2	570	142.27	2.6		EFAF77	6
4.9	715	281.71	2.1		EF 77	4
5.3	660	260.59	2.3		EFA 77	4
6.2	575	225.79	2.6		EFF 77	4
7.0	505	198.31	3.0		EFAF77	4
4.5	780	195.48	1.05			
5.2	680	170.93	1.20		EF 67	6
5.5	640	160.50	1.30		EFA 67	6
6.2	570	142.47	1.45		EFF 67	6
7.3	480	120.84	1.70		EFAF67	6
6.1	580	229.10	1.40			
7.1	495	195.48	1.65		EF 67	4
8.1	435	170.93	1.90		EFA 67	4
8.7	410	160.50	2.0		EFF 67	4
9.8	360	142.47	2.3		EFAF67	4
12	305	120.84	2.7			
5.6	625	157.09	0.95		EF 57	6
6.5	545	136.16	1.10		EFA 57	6
7.0	510	127.27	1.20		EFF 57	6
8.0	440	110.01	1.35		EFAF57	6

Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio	Factor de Servicio Service Factor [i]	Factor de Servicio Service Factor [fa]	Tipo Type	Polo de Motor Motor Pole
0.37kW						
7.0	510	199.70	1.20			
7.6	465	183.60	1.30			
8.8	400	157.09	1.50		EF 57	4
10	345	136.16	1.75		EFA 57	4
11	325	127.27	1.85		EFF 57	4
13	280	110.01	2.1		EFAF57	4
15	240	93.47	2.5			
17	210	83.46	2.8			
8.4	420	165.06	0.95			
9.8	360	141.22	1.10		EF 47	4
11	310	122.41	1.30		EFA 47	4
12	290	114.41	1.40		EFF 47	4
14	250	98.90	1.60		EFF 47	4
17	215	84.03	1.85		EFAF47	4
19	191	75.03	2.1			
22	163	64.08	2.5			
16	220	86.53	0.90			
17	205	80.65	1.00			
20	179	70.50	1.10			
21	168	66.09	1.20			
24	148	58.32	1.35			
25	139	54.54	1.45		EF 37	4
27	131	51.70	1.50		EFA 37	4
30	120	47.02	1.65		EFF 37	4
32	111	43.83	1.80		EFAF37	4
36	97	38.31	2.1			
39	91	35.91	2.2			
44	81	31.69	2.5			
49	71	28.10	2.8			
59	60	23.63	3.3			
68	52	20.57	3.8			
72	49	19.27	4.1			
82	43	17.03	4.6			
88	40	15.81	5.0			
97	36	14.33	5.5			
108	33	12.87	6.1		EF 37	4
125	28	11.08	6.7		EFA 37	4
133	26	10.42	7.0		EFF 37	4
155	23	8.97	7.7		EFAF37	4
174	20	8.01	8.3			
184	19	7.57	7.5			
203	17	6.86	8.0			
226	16	6.16	8.6			
262	13	5.31	9.3			
279	13	4.99	9.5			
323	11	4.30	10			
362	9.8	3.84	11			
0.55kW						
0.22	20500	6304	0.90			
0.26	17400	5342	1.05			
0.29	15800	4840	1.15		EF 157ER97	4
0.33	13500	4152	1.35		EFA 157ER97	4
0.39	11700	3599	1.55		EFF 157ER97	4
0.43	10400	3202	1.75		EFAF157ER97	4
0.50	9090	2790	2.0			
0.58	7800	2393	2.3			
0.65	7020	2154	2.6		EF 157ER97	4
0.71	6360	1951	2.8		EFA 157ER97	4
0.83	5440	1670	3.3		EFF 157ER97	4
1.0	4320	1326	4.2		EFAF157ER97	4

Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio	Factor de Servicio Service Factor [i]	Factor de Servicio Service Factor [fa]	Tipo Type	Polo de Motor Motor Pole
0.55kW						
0.36	12700	3908	0.95		EF 127ER77	4
0.40	11200	3451	1.05		EFA 127ER77	4
0.46	9880	3032	1.20		EFF 127ER77	4
					EFAF127ER77	4
0.58	7740	2377	1.00			
0.67	6780	2080	1.15			
0.76	5970	1831	1.30			
0.87	5200	1596	1.50			
0.98	4610	1416	1.65		EF 107ER77	4
1.1	4020	1235	1.90		EFA 107ER77	4
1.3	3530	1084	2.2		EFF 107ER77	4
1.5	3110	956	2.5		EFAF107ER77	4
1.6	2760	848	2.8			
1.9	2430	746	3.2			
2.2	2090	641	3.7			
1.0	4320	1327	1.00			
1.2	3820	1173	1.15			
1.4	3340	1025	1.30			
1.5	2940	903	1.45			
1.7	2600	797	1.65		EF 97ER57	4
2.0	2250	690	1.90		EFA 97ER57	4
2.3	1960	603	2.2		EFF 97ER57	4
2.6	1740	534	2.5		EFAF97ER57	4
3.0	1520	468	2.8			
3.4	1330	407	3.2			
3.8	1180	362	3.6			
1.6	2920	895	1.05			
1.8	2540	779	1.20			
2.1	2210	677	1.35		EF 87ER57	4
2.3	1990	611	1.50		EFA 87ER57	4
2.7	1650	507	1.80		EFF 87ER57	4
3.1	1480	453	2.0		EFAF87ER57	4
4.1	1110	340	2.7			
2.9	1560	480	0.95		EF 77ER37	4
3.4	1340	410	1.10		EFA 77ER37	4
3.8	1210	370	1.25		EFF 77ER37	4
4.3	1060	324	1.40		EFAF77ER37	4
5.3	850	260	0.95		EF 67ER37	4
5.9	760	234	1.10		EFA 67ER37	4
6.7	680	208	1.20		EFF 67ER37	4
7.9	570	175	1.45		EFAF67ER37	4
2.4	2170	276.99	2.0		EF 97	8
2.6	1990	253.61	2.2		EFA 97	8
3.0	1760	224.06	2.4		EFF 97	8
					EFAF97	8
2.5	2140	273.43	1.40		EF 87	8
2.6	2020	257.97	1.50		EFA 87	8
2.9	1810	231.26	1.65		EFF 87	8
3.4	1560	199.21	1.90		EFAF87	8
3.2	1620	273.43	1.85			
3.4	1530	257.97	1.95		EF 87	6
3.8	1370	231.26	2.2		EFA 87	6
4.4	1180	199.21	2.5		EFF 87	6
4.9	1080	181.80	2.8		EFAF87	6
3.9	1340	225.79	1.10			
4.5	1180	198.31	1.25		EF 77	6
4.7	1110	186.64	1.35		EFA 77	6
5.3	990	166.47	1.50		EFF 77	6
6.2	840	142.27	1.80		EFAF77	6
6.9	765	129.12	1.95			

Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio	Factor de Servicio Service Factor [i]	Factor de Servicio Service Factor [fa]	Tipo Type	Polo de Motor Motor Pole
0.55kW						
7.0	750	198.31	2.0			
7.4	705	186.64	2.1			
8.3	630	166.47	2.4		EF 77	4
9.8	540	142.27	2.8		EFA 77	4
11	490	129.12	3.1		EFF 77	4
12	430	114.45	3.5		EFAF77	4
13	410	108.46	3.7			
15	360	94.93	4.2			
7.1	740	195.48	1.10			
8.1	645	170.93	1.25			
8.7	605	160.50	1.35			
9.8	540	142.47	1.50		EF 67	4
12	455	120.84	1.80		EFA 67	4
13	410	109.09	2.0		EFF 67	4
14	365	95.98	2.3		EFAF67	4
15	340	90.63	2.4			
16	325	85.94	2.5			
18	290	76.29	2.8			
8.8	595	157.09	1.00			
10	515	136.16	1.15			
11	480	127.27	1.25			
13	415	110.01	1.45		EF 57	4
15	355	93.47	1.70		EFA 57	4
17	315	83.46	1.90		EFF 57	4
18	285	76.07	2.1		EFAF57	4
20	270	71.10	2.2			
23	230					



Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fs]		
0.75kW					
0.50	12500	2790	1.45	EF 157ER97	4
				EFA 157ER97	4
				EFF 157ER97	4
				EFAF157ER97	4
0.58	10700	2393	1.70	EF 157ER97	4
0.65	9620	2154	1.85	EFA 157ER97	4
0.83	7460	1670	2.4	EFF 157ER97	4
				EFAF157ER97	4
0.46	13500	3032	0.90	EF 127ER77	4
				EFA 127ER77	4
				EFF 127ER77	4
				EFAF127ER77	4
0.54	11500	2575	1.05		
0.59	10600	2372	1.15	EF 127ER77	4
0.69	8980	2011	1.35	EFA 127ER77	4
0.78	7920	1774	1.50	EFF 127ER77	4
0.88	7050	1578	1.70	EFAF127ER77	4
0.76	8180	1831	0.95		
0.87	7130	1596	1.10		
0.98	6330	1416	1.20		
1.1	5520	1235	1.40		
1.3	4840	1084	1.60	EF 107ER77	4
1.5	4270	956	1.80	EFA 107ER77	4
1.6	3790	848	2.0	EFF 107ER77	4
1.9	3330	746	2.3	EFAF107ER77	4
2.2	2860	641	2.7		
2.5	2480	555	3.1		
3.2	1950	436	3.9		
1.4	4580	1025	0.95		
1.5	4030	903	1.05		
1.7	3560	797	1.20		
2.0	3080	690	1.40	EF 97ER57	4
2.3	2690	603	1.60	EFA 97ER57	4
2.6	2390	534	1.80	EFF 97ER57	4
3.0	2090	468	2.1	EFAF97ER57	4
3.4	1820	407	2.4		
3.8	1620	362	2.7		
2.1	3020	677	1.00		
2.3	2730	611	1.10	EF 87ER57	4
2.7	2260	507	1.30	EFA 87ER57	4
3.1	2020	453	1.50	EFF 87ER57	4
4.1	1520	340	2.0	EFAF87ER57	4
3.8	1650	370	0.90	EF 77ER37	4
4.3	1450	324	1.05	EFA 77ER37	4
5.0	1240	278	1.20	EFF 77ER37	4
				EFAF77ER37	4
2.7	2650	251.75	2.9	EF 107	8
3.2	2240	213.13	3.4	EFA 107	8
				EFF 107	8
				EFAF107	8
2.5	2920	276.99	1.45	EF 97	8
2.7	2670	253.61	1.60	EFA 97	8
3.0	2360	224.06	1.80	EFF 97	8
				EFAF97	8
3.3	2180	276.99	1.95	EF 97	6
3.6	2000	253.61	2.2	EFA 97	6
4.1	1760	224.06	2.4	EFF 97	6
				EFAF97	6

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fs]		
0.75kW					
3.3	2150	273.43	1.40		
3.5	2030	257.97	1.50	EF 87	6
3.9	1820	231.26	1.65	EFA 87	6
4.6	1570	199.21	1.90	EFF 87	6
5.0	1430	181.80	2.1	EFAF87	6
5.6	1270	161.23	2.4		
5.1	1410	273.43	2.1	EF 87	4
5.4	1330	257.97	2.3	EFA 87	4
6.0	1190	231.26	2.5	EFF 87	4
				EFAF87	4
4.6	1560	198.31	0.95		
4.9	1470	186.64	1.00	EF 77	6
5.5	1310	166.47	1.15	EFA 77	6
6.4	1120	142.27	1.35	EFF 77	6
7.0	1020	129.12	1.50	EFAF77	6
7.0	1020	198.31	1.45		
7.4	960	186.64	1.55		
8.3	860	166.47	1.75	EF 77	4
9.8	735	142.27	2.0	EFA 77	4
11	665	129.12	2.3	EFF 77	4
12	590	114.45	2.5	EFAF77	4
13	560	108.46	2.7		
8.1	880	170.93	0.95		
8.7	830	160.50	1.00		
9.8	735	142.47	1.10		
12	625	120.84	1.30		
13	560	109.09	1.45	EF 67	4
14	495	95.98	1.65	EFA 67	4
15	465	90.63	1.75	EFF 67	4
16	445	85.94	1.85	EFAF67	4
18	395	76.29	2.1		
21	335	64.71	2.5		
24	300	58.42	2.7		
11	655	127.27	0.90		
13	565	110.01	1.05		
15	480	93.47	1.25		
17	430	83.46	1.40	EF 57	4
18	390	76.07	1.55	EFA 57	4
20	365	71.10	1.65	EFF 57	4
23	315	61.46	1.90	EFAF57	4
27	270	52.22	2.2		
30	240	46.62	2.5		
35	205	39.82	2.9		
17	435	84.03	0.90		
19	385	75.03	1.05		
22	330	64.08	1.20		
22	325	63.37	1.25	EF 47	4
25	280	54.78	1.40	EFA 47	4
30	240	46.54	1.65	EFF 47	4
33	215	41.56	1.85	EFAF47	4
39	183	35.50	2.2		
42	171	33.24	2.3		
50	144	28.00	2.8		
30	240	47.02	0.85		
32	225	43.83	0.90		
36	197	38.31	1.00	EF 37	4
39	185	35.91	1.10	EFA 37	4
44	163	31.69	1.20	EFF 37	4
49	145	28.10	1.40	EFAF37	4
58	124	23.88	1.60		

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fs]		
0.75kW					
68	106	20.57	1.90		
72	99	19.27	2.0		
82	88	17.03	2.3		
88	81	15.81	2.5		
97	74	14.33	2.7		
108	66	12.87	3.0		
125	57	11.08	3.3		
133	54	10.42	3.4	EF 37	4
155	46	8.97	3.8	EFA 37	4
174	41	8.01	4.1	EFF 37	4
184	39	7.57	3.7	EFAF37	4
203	35	6.86	4.0		
226	32	6.16	4.3		
262	27	5.31	4.6		
279	26	4.99	4.7		
323	22	4.30	5.0		
362	20	3.84	5.3		
1.1kW					
0.50	18200	2790	1.00	EF 157ER97	4
0.98	9330	1432	1.95	EFA 157ER97	4
				EFF 157ER97	4
				EFAF157ER97	4
0.59	15600	2393	1.15		
0.65	14000	2154	1.30	EF 157ER97	4
0.72	12700	1951	1.40	EFA 157ER97	4
0.84	10900	1670	1.65	EFF 157ER97	4
1.1	8640	1326	2.1	EFAF157ER97	4
1.5	6130	940	2.9		
1.6	5550	851	3.2		
2.4	3740	574	4.8		
0.70	13100	2011	0.90		
0.79	11600	1774	1.05	EF 127ER77	4
0.89	10300	1578	1.15	EFA 127ER77	4
1.0	9120	1399	1.30	EFF 127ER77	4
1.1	7940	1218	1.50	EFAF127ER77	4
1.3	6960	1068	1.70		
1.1	8050	1235	0.95		
1.3	7070	1084	1.10	EF 107ER77	4
1.5	6230	956	1.25	EFA 107ER77	4
1.7	5530	848	1.40	EFF 107ER77	4
1.9	4860	746	1.60	EFAF107ER77	4
2.2	4180	641	1.85		
2.0	4500	690	0.95		
2.3	3930	603	1.10	EF 97ER57	4
2.6	3480	534	1.25	EFA 97ER57	4
3.0	3050	468	1.40	EFF 97ER57	4
3.4	2650	407	1.60	EFAF97ER57	4
3.9	2360	362	1.80		
3.1	2950	453	1.00	EF 87ER57	4
4.1	2220	340	1.35	EFA 87ER57	4
4.7	1930	296	1.55	EFF 87ER57	4
5.7	1600	245	1.90	EFAF87ER57	4
2.7	3890	251.75	1.95	EF 107	8
3.2	3290	213.13	2.3	EFA 107	8
3.4	3050	197.24	2.5	EFF 107	8
3.8	2730	176.78	2.8	EFAF107	8
3.3	3200	276.99	1.35		
3.6	2930	253.61	1.45	EF 97	6
4.1	2590	224.06	1.65	EFA 97	6
4.8	2190	190.07	1.95	EFF 97	6
5.2	2020	175.01	2.1	EFAF97	6

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fs]		
1.1kW					
5.1	2080	276.99	2.1	EF 97	4
5.5	1900	253.61	2.3	EFA 97	4
6.2	1680	224.06	2.6	EFF 97	4
				EFAF97	4
3.3	3160	273.43	0.95		
3.5	2980	257.97	1.00	EF 87	6
3.9	2670	231.26	1.10	EFA 87	6
4.6	2300	199.21	1.30	EFF 87	6
5.0	2100	181.80	1.45	EFAF87	6
5.6	1860	161.23	1.60		
5.1	2050	273.43	1.45		
5.4	1940	257.97			



Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fa]		
1.1kW					
44	240	31.69	0.85	EF 37	4
50	210	28.10	0.95	EFA 37	4
59	179	23.88	1.10	EFF 37	4
				EFAF37	4
68	154	20.57	1.30		
73	145	19.27	1.40		
82	128	17.03	1.55		
89	119	15.81	1.70		
98	108	14.33	1.85		
109	97	12.87	2.1		
126	83	11.08	2.3		
134	78	10.42	2.4	EF 37	4
156	67	8.97	2.6	EFA 37	4
175	60	8.01	2.8	EFF 37	4
185	57	7.57	2.6	EFAF37	4
204	51	6.86	2.7		
227	46	6.16	2.9		
264	40	5.31	3.1		
281	37	4.99	3.2		
326	32	4.30	3.4		
365	29	3.84	3.6		
1.5kW					
0.59	21300	2393	0.85		
0.65	19200	2154	0.95		
0.72	17400	1951	1.05	EF 157ER97	4
0.84	14900	1670	1.20	EFA 157ER97	4
1.1	11800	1326	1.50	EFF 157ER97	4
1.5	8380	940	2.1	EFAF157ER97	4
1.6	7590	851	2.4		
2.4	5120	574	3.5		
0.89	14100	1578	0.85		
1.0	12500	1399	0.95		
1.1	10900	1218	1.10	EF 127ER77	4
1.3	9530	1068	1.25	EFA 127ER77	4
1.5	8290	929	1.45	EFF 127ER77	4
1.7	7360	825	1.65	EFAF127ER77	4
2.0	6400	717	1.90		
2.1	5830	654	2.1		
1.5	8530	956	0.90		
1.7	7560	848	1.00		
1.9	6650	746	1.15	EF 107ER77	4
2.2	5720	641	1.35	EFA 107ER77	4
2.5	4950	555	1.55	EFF 107ER77	4
2.8	4390	492	1.75	EFAF107ER77	4
3.2	3890	436	1.95		
3.8	3300	370	2.3		
2.6	4760	534	0.90	EF 97ER57	4
3.0	4170	468	1.05	EFA 97ER57	4
3.4	3630	407	1.20	EFF 97ER57	4
3.9	3230	362	1.35	EFAF97ER57	4
4.7	2640	296	1.15	EF 87ER57	4
5.7	2190	245	1.35	EFA 87ER57	4
				EFF 87ER57	4
				EFAF87ER57	4
2.7	5230	251.75	1.45	EF 107	8
3.2	4420	213.13	1.75	EFA 107	8
3.5	4090	197.24	1.90	EFF 107	8
3.9	3670	176.78	2.1	EFAF107	8

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fa]		
1.5kW					
3.7	3920	251.75	1.95	EF 107	6
4.3	3320	213.13	2.3	EFA 107	6
4.7	3070	197.24	2.5	EFF 107	6
5.2	2750	176.78	2.8	EFAF107	6
3.3	4310	276.99	1.00		
3.6	3950	253.61	1.10	EF 97	6
4.1	3490	224.06	1.25	EFA 97	6
4.8	2960	190.07	1.45	EFF 97	6
5.3	2720	175.01	1.60	EFAF97	6
5.1	2830	276.99	1.50		
5.5	2590	253.61	1.65	EF 97	4
6.2	2290	224.06	1.90	EFA 97	4
7.4	1940	190.07	2.2	EFF 97	4
8.0	1790	175.01	2.4	EFAF97	4
5.1	2800	273.43	1.05		
5.4	2640	257.97	1.15		
6.1	2370	231.26	1.25		
7.0	2040	199.21	1.45	EF 87	4
7.7	1860	181.80	1.60	EFA 87	4
8.7	1650	161.23	1.80	EFF 87	4
10	1390	135.53	2.2	EFAF87	4
11	1270	124.55	2.4		
13	1130	110.60	2.7		
14	1010	98.89	3.0		
8.4	1700	166.47	0.90		
9.8	1460	142.27	1.05		
11	1320	129.12	1.15		
12	1170	114.45	1.30		
13	1110	108.46	1.35		
15	970	94.93	1.55		
16	870	85.52	1.70		
19	770	75.02	1.95	EF 77	4
19	750	73.45	2.0	EFA 77	4
21	680	66.66	2.2	EFF 77	4
24	605	59.09	2.5	EFAF77	4
25	575	56.00	2.6		
29	500	49.01	3.0		
32	450	44.15	3.3		
36	395	38.73	3.8		
41	350	34.18	4.3		
46	310	30.30	4.8		
15	930	90.63	0.90		
16	880	85.94	0.95		
18	780	76.29	1.05		
22	660	64.71	1.25	EF 67	4
24	600	58.42	1.35	EFA 67	4
27	525	51.40	1.55	EFF 67	4
29	495	48.53	1.65	EFAF67	4
34	425	41.32	1.95		
37	385	37.55	2.0		
43	335	32.53	2.2		
43	330	32.28	2.5	EF 67	4
49	295	28.79	2.8	EFA 67	4
57	250	24.61	3.3	EFF 67	4
				EFAF67	4
23	630	61.46	0.95		
27	535	52.22	1.10	EF 57	4
30	475	46.62	1.25	EFA 57	4
35	405	39.82	1.45	EFF 57	4
38	380	37.30	1.55	EFAF57	4
45	320	31.42	1.85		

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fa]		
1.5kW					
34	425	41.56	0.95	EF 47	4
39	365	35.50	1.10	EFA 47	4
42	340	33.24	1.20	EFF 47	4
50	285	28.00	1.40	EFAF47	4
48	295	29.04	1.35		
51	280	27.27	1.45	EF 47	4
58	250	24.21	1.60	EFA 47	4
68	210	20.53	1.90	EFF 47	4
76	190	18.54	2.1	EFAF47	4
86	167	16.31	2.4		
91	158	15.40	2.5		
107	134	13.11	3.0		
68	210	20.57	0.95		
73	197	19.27	1.00		
82	174	17.03	1.15		
89	162	15.81	1.25		
98	147	14.33	1.35		
109	132	12.87	1.50		
126	113	11.08	1.70		
134	107	10.42	1.75	EF 37	4
156	92	8.97	1.90	EFA 37	4
175	82	8.01	2.1	EFF 37	4
185	77	7.57	1.85	EFAF37	4
204	70	6.86	2.0		
227	63	6.16	2.1		
264	54	5.31	2.3		
281	51	4.99	2.4		
326	44	4.30	2.5		
365	39	3.84	2.7		
2.2kW					
0.99	18500	1432	0.95	EF 157ER97	4
				EFA 157ER97	4
				EFF 157ER97	4
				EFAF157ER97	4
1.1	17100	1326	1.05	EF 157ER97	4
1.5	12100	940	1.50	EFA 157ER97	4
1.7	11000	851	1.65	EFF 157ER97	4
1.8	9970	772	1.80	EFAF157ER97	4
2.5	7420	574	2.4		
5.2	3550	275	5.1		
1.3	13800	1068	0.85		
1.5	12000	929	1.00		
1.7	10700	825	1.15	EF 127ER77	4
2.0	9260	717	1.30	EFA 127ER77	4
2.2	8450	654	1.40	EFF 127ER77	4
2.6	7170	555	1.65	EFAF127ER77	4
2.9	6290	487	1.90		
3.3	5550	430	2.2		
2.2	8280	641	0.95		
2.6	7170	555	1.05	EF 107ER77	4
2.9	6360	492	1.20	EFA 107ER77	4
3.3	5630	436	1.35	EFF 107ER77	4
3.8	4780	370	1.60	EFAF107ER77	4
4.3	4300	333	1.80		
5.1	3620	280	1.20	EF 97ER57	4
5.8	3180	246	1.35	EFA 97ER57	4
				EFF 97ER57	4
				EFAF97ER57	4
2.8	7450	251.75	1.05	EF 107	8
3.3	6310	213.13	1.20	EFA 107	8
3.6	5840	197.24	1.30	EFF 107	8
4.0	5230	176.78	1.45	EFAF107	8

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	[i]	[fa]		
2.2kW					
3.7	5630	251.75	1.35	EF 107	6
4.4	4760	213.13	1.60	EFA 107	6
4.8	4410	197.24	1.75	EFF 107	6
5.3	3950	176.78	1.95	EFAF107	6
5.6	3720	251.75	2.1	EF 107	4
6.7	3150	213.13	2.4	EFA 107	4
7.2	2920	197.24	2.6	EFF 107	4
8.0	2620	176.78	2.9	EFAF107	4
4.2	5010	224.06	0.85	EF 97	6
4.9	4250	190.07	1.00	EFA 97	6
5.4	3910	175.01	1.10	EFF 97	6
6.0	3500	156.43	1.25	EFAF97	6
5.1	4100	276.99	1.05		
5.6	3750	253.61	1.15		
6.3	3310	224.06	1.30	EF 97	4
7.5	2810	190.07	1.55	EFA 97	4
8.1	2590	175.01	1.65	EFF 97	4
9.1	2310	156.43	1.85	EFAF97	4
10	2080	140.82	2.1		
11	1890	127.52	2.3		
7.1	2950	199.21	1.00		
7.8	2690	181.80	1.10		
8.8	2390	161.23	1.25		
10	2010	135.53	1.50		
11	1840	124.55	1.65		
13	1640	110.60	1.85	EF 87	4
14	1460	98.89	2.1	EFA 87	4
16	1320	88.91	2.3	EFF 87	4
18	1140	77.17	2.6	EFAF87	4
21	1020	69.10	2.9		
25	850	57.33	3.5		
28	760	51.50	3.9		
31	685	46.31	4.1		
12	1690	114.45	0.90		
13	1600	108.46	0.95		
15	1400	94.93	1.05		
17	1270	85.52	1.20		
19	1110	75.02	1.35	EF 77	4
19	1090	73.45	1.40	EFA 77	4
21	990	66.66	1.		



Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fa)		
2.2kW					
30	690	46.62	0.85	EF 57	4
36	590	39.82	1.00	EFA 57	4
38	550	37.30	1.10	EFF 57	4
45	465	31.42	1.25	EFAF57	4
57	370	24.96	1.55		
67	315	21.17	1.90	EF 57	4
74	285	19.11	2.1	EFA 57	4
84	250	16.81	2.4	EFF 57	4
89	235	15.88	2.6	EFAF57	4
59	360	24.21	1.10		
69	305	20.53	1.30		
77	275	18.54	1.45		
87	240	16.31	1.65	EF 47	4
92	230	15.40	1.75	EFA 47	4
108	194	13.11	2.1	EFF 47	4
119	176	11.92	2.3	EFAF47	4
138	153	10.32	2.6		
153	137	9.28	2.2		
169	124	8.38	2.4		
99	210	14.33	0.95		
110	190	12.87	1.05		
128	164	11.08	1.15		
136	154	10.42	1.20		
158	133	8.97	1.30		
177	119	8.01	1.45	EF 37	4
188	112	7.57	1.30	EFA 37	4
207	101	6.86	1.40	EFF 37	4
231	91	6.16	1.50	EFAF37	4
267	79	5.31	1.60		
285	74	4.99	1.65		
330	64	4.30	1.75		
370	57	3.84	1.85		
3kW					
1.5	16600	940	1.10		
1.7	15000	851	1.20	EF 157ER97	4
1.8	13600	772	1.30	EFA 157ER97	4
2.5	10100	574	1.80	EFF 157ER97	4
5.2	4850	275	3.7	EFAF157ER97	4
2.0	12700	717	0.95	EF 127ER77	4
2.2	11500	654	1.05	EFA 127ER77	4
2.6	9800	555	1.20	EFF 127ER77	4
2.9	8600	487	1.40	EFAF127ER77	4
3.3	7700	436	1.00	EF 107ER77	4
3.8	6530	370	1.20	EFA 107ER77	4
4.3	5880	333	1.30	EFF 107ER77	4
4.9	5140	291	1.50	EFAF107ER77	4
4.1	7060	174.86	1.70	EF 127	8
4.5	6350	157.30	1.90	EFA 127	8
5.5	5180	128.33	2.3	EFF 127	8
6.1	4720	117.04	2.5	EFAF127	8
5.5	5220	174.86	2.3	EF 127	6
6.1	4690	157.30	2.6	EFA 127	6
7.5	3830	128.33	3.1	EFF 127	6
8.2	3490	117.04	3.4	EFAF127	6
3.8	7510	251.75	1.00	EF 107	6
4.5	6360	213.13	1.20	EFA 107	6
4.9	5890	197.24	1.30	EFF 107	6
5.4	5280	176.78	1.45	EFAF107	6

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fa)		
3kW					
5.6	5080	251.75	1.50		
6.7	4300	213.13	1.80	EF 107	4
7.2	3980	197.24	1.95	EFA 107	4
8.0	3570	176.78	2.2	EFF 107	4
8.9	3220	159.60	2.4	EFAF107	4
6.3	4520	224.06	0.95		
7.5	3830	190.07	1.10		
8.1	3530	175.01	1.20		
9.1	3160	156.43	1.35	EF 97	4
10	2840	140.82	1.50	EFA 97	4
11	2570	127.52	1.65	EFF 97	4
13	2280	113.08	1.90	EFAF97	4
14	2060	102.24	2.1		
15	1920	95.09	2.2		
16	1770	87.55	2.4		
10	2730	135.53	1.10		
11	2510	124.55	1.20		
13	2230	110.60	1.35		
14	2000	98.89	1.50	EF 87	4
16	1790	88.91	1.65	EFA 87	4
18	1560	77.17	1.95	EFF 87	4
21	1390	69.10	2.2	EFAF87	4
25	1160	57.33	2.6		
28	1040	51.50	2.8		
17	1730	85.52	0.85		
19	1510	75.02	1.00		
19	1480	73.45	1.00		
21	1340	66.66	1.10	EF 77	4
24	1190	59.09	1.25	EFA 77	4
25	1130	56.00	1.35	EFF 77	4
29	990	49.01	1.50	EFAF77	4
32	890	44.15	1.70		
37	780	38.73	1.90		
39	740	36.58	1.50		
45	635	31.51	2.2	EF 77	4
49	580	28.75	2.5	EFA 77	4
56	515	25.50	2.9	EFF 77	4
66	430	21.43	3.5	EFAF77	4
29	980	48.53	0.85	EF 67	4
34	830	41.32	1.00	EFA 67	4
38	760	37.55	1.05	EFF 67	4
44	655	32.53	1.15	EFAF67	4
49	580	28.79	1.40		
58	495	24.61	1.65		
64	450	22.33	1.80	EF 67	4
72	400	19.80	2.1	EFA 67	4
76	380	18.76	2.2	EFF 67	4
86	330	16.42	2.5	EFAF67	4
96	300	14.79	2.7		
57	505	24.96	1.15		
67	425	21.17	1.40		
74	385	19.11	1.55	EF 57	4
84	340	16.81	1.75	EFA 57	4
89	320	15.88	1.85	EFF 57	4
105	275	13.52	2.2	EFAF57	4
116	250	12.29	2.4		
133	215	10.64	2.8		

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fa)		
3kW					
69	415	20.53	0.95		
77	375	18.54	1.05		
87	330	16.31	1.20		
92	310	15.40	1.30	EF 47	4
108	265	13.11	1.50	EFA 47	4
119	240	11.92	1.65	EFF 47	4
138	210	10.32	1.90	EFAF47	4
153	187	9.28	1.60		
169	169	8.38	1.75		
128	225	11.08	0.85		
136	210	10.42	0.90		
158	181	8.97	0.95		
177	162	8.01	1.05		
188	153	7.57	0.95	EF 37	4
207	138	6.86	1.00	EFA 37	4
231	124	6.16	1.10	EFF 37	4
267	107	5.31	1.15	EFAF37	4
285	101	4.99	1.20		
330	87	4.30	1.25		
370	77	3.84	1.35		
4kW					
1.7	19800	851	0.90	EF 157ER97	4
1.9	17900	772	1.00	EFA 157ER97	4
2.5	13300	574	1.35	EFF 157ER97	4
5.2	6390	275	2.8	EFAF157ER97	4
2.6	12900	555	0.95	EF 127ER77	4
3.0	11300	487	1.05	EFA 127ER77	4
3.3	9900	430	1.20	EFF 127ER77	4
3.8	8860	381	1.35	EFAF127ER77	4
4.3	7740	333	1.00	EF 107ER77	4
4.9	6760	291	1.15	EFA 107ER77	4
5.6	5950	256	1.30	EFF 107ER77	4
				EFAF107ER77	4
4.1	9280	174.86	1.30	EF 127	8
4.6	8340	157.30	1.45	EFA 127	8
5.6	6810	128.33	1.75	EFF 127	8
6.2	6210	117.04	1.95	EFAF127	8
5.7	6680	251.75	1.15		
6.8	5650	213.13	1.35		
7.3	5230	197.24	1.45		
8.1	4690	176.78	1.65	EF 107	4
9.0	4230	159.60	1.80	EFA 107	4
9.9	3850	144.96	2.0	EFF 107	4
11	3410	128.62	2.3	EFAF107	4
12	3100	116.71	2.5		
14	2660	100.32	2.9		
8.2	4640	175.01	0.95		
9.2	4150	156.43	1.05		
10	3740	140.82	1.15		
11	3380	127.52	1.25		
13	3000	113.08	1.45	EF 97	4
14	2710	102.24	1.60	EFA 97	4
15	2520	95.09	1.70	EFF 97	4
17	2300	86.66	1.85	EFAF97	4
18	2080	78.26	2.1		
20	1870	70.45	2.3		
23	1690	63.80	2.5		

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fa)		
4kW					
13	2930	110.60	1.00		
15	2620	98.89	1.15		
16	2360	88.91	1.25	EF 87	4
19	2050	77.17	1.45	EFA 87	4
21	1830	69.10	1.65	EFF 87	4
25	1520	57.33	1.95	EFAF87	4
28	1370	51.50	2.2		
31	1230	46.31	2.3		
22	1770	66.66	0.85		
24	1570	59.09	0.95		
26	1490	56.00	1.00		
29	1300	49.01	1.15	EF 77	4
33	1170	44.15	1.30	EFA 77	4
37	1030	38.73	1.45	EFF 77	4
42	910	34.18	1.65	EFAF77	4
48	800	30.30	1.85		
56	685	25.87	2.1		
46	840	31.51	1.65		
50	765	28.75	1.90	EF 77	4
56	675	25.50	2.2	EFA 77	4
67	570	21.43	2.6	EFF 77	4
73	525	19.70	2.9	EFAF77	4
50	765	28.79	1.05		
59	655	24.61	1.25		
64	590	22.33	1.40		
73	525	19.80	1.55		
77	500	18.76	1.65		
88	435	16.42	1.90		
97	390	14.79	2.1		
111	345	12.98	2.4		
126	305	11.45	2.7	EF 67	4
142	270	10.15	3.0	EFA 67	4
160	240	9.00	2.2	EFF 67	4
166	230	8.67	3.6	EFAF67	4
169	225	8.53	2.5		
193	198	7.46	3.0		
214	179	6.73	3.4		
244	156	5.90	3.8		
276	138	5.21	4.3		
312	123	4.62	4.6		
365	105	3.94	4.8		
68	560	21.17	1.05		
75	505	19.11	1.20		
86	445	16.81	1.35		
91	420	15.88	1.40		
107	360	13.52	1.65		
117	325	12.29	1.85	EF 57	4
135	280				



Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fs)		
5.5kW					
2.5	18300	574	1.00		
2.9	16000	502	1.10		
3.3	14000	437	1.30		
4.1	11100	348	1.60	EF 157ER97	4
4.8	9620	301	1.85	EFA 157ER97	4
5.2	8790	275	2.0	EFF 157ER97	4
6.3	7350	230	2.4	EFAF157ER97	4
7.2	6430	201	2.8		
7.3	6330	198	2.8		
3.5	13200	412	0.90		
3.9	12000	374	1.00	EF 127ER87	4
4.6	10000	314	1.20	EFA 127ER87	4
4.9	9460	296	1.25	EFF 127ER87	4
5.5	8340	261	1.45	EFAF127ER87	4
6.4	7190	225	1.65		
3.3	13700	430	0.85	EF 127ER77	4
3.8	12200	381	1.00	EFA 127ER77	4
				EFF 127ER77	4
				EFAF127ER77	4
2.7	19500	267.43	0.90		
3.3	15900	217.62	1.15		
4.0	13000	178.20	1.40		
4.4	11900	162.96	1.50		
5.1	10300	141.80	1.75	EF 157	8
5.8	9130	125.14	1.95	EFA 157	8
6.6	7910	108.49	2.3	EFF 157	8
7.5	7040	96.53	2.6	EFAF157	8
8.6	6130	84.10	2.9		
9.4	5610	76.91	3.2		
11	4880	66.92	3.7		
4.1	12800	174.86	0.95	EF 127	8
4.6	11500	157.30	1.05	EFA 127	8
5.6	9360	128.33	1.30	EFF 127	8
6.2	8540	117.04	1.40	EFAF127	8
5.5	9570	174.86	1.25	EF 127	6
6.1	8610	157.30	1.40	EFA 127	6
7.5	7020	128.33	1.70	EFF 127	6
8.2	6400	117.04	1.85	EFAF127	6
6.8	7770	213.13	1.00		
7.3	7190	197.24	1.05		
8.1	6450	176.78	1.20		
9.0	5820	159.60	1.30		
9.9	5290	144.96	1.45	EF 107	4
11	4690	128.62	1.65	EFA 107	4
12	4260	116.71	1.80	EFF 107	4
14	3660	100.32	2.1	EFAF107	4
16	3380	92.57	2.3		
16	3190	87.57	2.4		
17	3070	84.08	2.5		
11	4650	127.52	0.90		
13	4120	113.08	1.05		
14	3730	102.24	1.15		
15	3470	95.09	1.25		
16	3190	87.55	1.35	EF 97	4
17	3160	86.66	1.35	EFA 97	4
18	2850	78.26	1.50	EFF 97	4
20	2570	70.45	1.65	EFAF97	4
23	2330	63.80	1.85		
25	2060	56.57	2.1		
28	1870	51.15	2.3		

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fs)		
5.5kW					
16	3240	88.91	0.95		
19	2810	77.17	1.05		
21	2520	69.10	1.20		
25	2090	57.33	1.45	EF 87	4
28	1880	51.50	1.55	EFA 87	4
31	1690	46.31	1.65	EFF 87	4
36	1470	40.19	1.85	EFAF87	4
40	1310	35.99	2.0		
48	1090	29.86	2.3		
42	1250	34.27	2.1	EF 87	4
50	1060	29.07	2.3	EFA 87	4
54	980	26.77	3.1	EFF 87	4
60	870	23.92	3.4	EFAF87	4
29	1790	49.01	0.85		
33	1610	44.15	0.95	EF 77	4
37	1410	38.73	1.05	EFA 77	4
42	1250	34.18	1.20	EFF 77	4
48	1110	30.30	1.35	EFAF77	4
56	940	25.87	1.55		
56	930	25.50	1.60		
67	780	21.43	1.90		
73	720	19.70	2.1	EF 77	4
82	640	17.49	2.4	EFA 77	4
92	570	15.64	2.6	EFF 77	4
102	515	14.06	2.9	EFAF77	4
118	445	12.21	3.4		
73	720	19.80	1.15		
77	685	18.76	1.20		
88	600	16.42	1.35		
97	540	14.79	1.50		
111	475	12.98	1.75		
126	420	11.45	1.95		
142	370	10.15	2.2	EF 67	4
160	330	9.00	1.60	EFA 67	4
166	315	8.67	2.6	EFF 67	4
169	310	8.53	1.85	EFAF67	4
193	270	7.46	2.2		
214	245	6.73	2.5		
244	215	5.90	2.8		
276	190	5.21	3.1		
312	169	4.62	3.3		
365	144	3.94	3.5		
86	615	16.81	1.00		
91	580	15.88	1.05		
107	495	13.52	1.20		
117	450	12.29	1.35	EF 57	4
135	390	10.64	1.55	EFA 57	4
192	275	7.51	1.20	EFF 57	4
203	260	7.09	1.30	EFAF57	4
238	220	6.04	1.50		
262	200	5.49	1.65		
303	173	4.75	1.90		
7.5kW					
4.6	13500	314	0.90		
4.9	12700	296	0.95	EF 127ER87	4
5.6	11200	261	1.05	EFA 127ER87	4
6.5	9680	225	1.25	EFF 127ER87	4
7.3	8560	199	1.40	EFAF127ER87	4

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fs)		
7.5kW					
3.3	21600	217.62	0.85		
4.0	17700	178.20	1.00		
4.4	16200	162.96	1.10		
5.1	14100	141.80	1.30		
5.8	12400	125.14	1.45		
6.6	10800	108.49	1.65	EF 157	8
7.5	9600	96.53	1.85	EFA 157	8
8.6	8370	84.10	2.2	EFF 157	8
9.4	7650	76.91	2.4	EFAF157	8
11	6660	66.92	2.7		
12	5870	59.06	3.1		
14	5090	51.20	3.5		
16	4530	45.55	4.0		
19	3840	38.65	4.7		
3.6	20000	267.43	0.90		
4.4	16200	217.62	1.10		
5.4	13300	178.20	1.35		
5.9	12200	162.96	1.50		
6.8	10600	141.80	1.70		
7.7	9340	125.14	1.95	EF 157	6
8.8	8090	108.49	2.2	EFA 157	6
9.9	7200	96.53	2.5	EFF 157	6
11	6270	84.10	2.9	EFAF157	6
12	5740	76.91	3.1		
14	4990	66.92	3.6		
16	4410	59.06	4.1		
19	3820	51.20	4.7		
5.6	12800	128.33	0.95	EF 127	8
6.2	11600	117.04	1.05	EFA 127	8
7.1	10100	101.29	1.20	EFF 127	8
8.1	8890	89.38	1.35	EFAF127	8
5.5	13000	174.86	0.90	EF 127	6
6.1	11700	157.30	1.00	EFA 127	6
7.5	9570	128.33	1.25	EFF 127	6
8.2	8730	117.04	1.35	EFAF127	6
8.3	8580	174.86	1.40	EF 127	4
9.3	7720	157.30	1.55	EFA 127	4
11	6290	128.33	1.90	EFF 127	4
12	5740	117.04	2.1	EFAF127	4
8.3	8670	176.78	0.90		
9.1	7830	159.60	1.00		
10	7110	144.96	1.10		
11	6310	128.62	1.20		
13	5720	116.71	1.35	EF 107	4
15	4920	100.32	1.55	EFA 107	4
16	4540	92.57	1.70	EFF 107	4
17	4300	87.57	1.80	EFAF107	4
17	4120	84.08	1.85		
20	3660	74.60	2.1		
22	3320	67.69	2.3		
14	5020	102.24	0.85		
15	4660	95.09	0.90		
17	4250	86.66	1.00		
19	3840	78.26	1.10		
19	3710	75.69	1.15	EF 97	4
21	3460	70.45	1.25	EFA 97	4
23	3130	63.80	1.35	EFF 97	4
26	2770	56.57	1.55	EFAF97	4
29	2510	51.15	1.70		
34	2130	43.35	2.0		
39	1860	37.87	2.3		
46	1550	31.67	2.8		

Velocidad de salida Output speed	Par de salida Output torque	Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fs)		
7.5kW					
25	2810	57.33	1.05		
28	2530	51.50	1.15	EF 87	4
32	2270	46.31	1.25	EFA 87	4
36	1970	40.19	1.40	EFF 87	4
41	1770	35.99	1.50	EFAF87	4
49	1460	29.86	1.70		
50	1430	29.07	1.70		
55	1310	26.77	2.3		
61	1170	23.92	2.6	EF 87	4
68	1060	21.54	2.8	EFA 87	4
75	960	19.50	3.1	EFF 87	4
84	850	17.29	3.5	EFAF87	4
93	765	15.64	3.9		
43	1680	34.18	0.90	EF 77	4
48	1490	30.30	1.00	EFA 77	4
56	1270	25.87	1.15	EFF 77	4
				EFAF77	4
57	1250	25.50	1.20		
68	1050	21.43	1.45		
74	970	19.70	1.55		
83	860	17.49	1.75		
93	765	15.64	1.95		
104	690	14.06	2.2		
120	600	12.21	2.5	EF 77	4
134	535	10.93	2.8	EFA 77	4
156	460	9.36	2.3	EFF 77	4
176	410	8.31	2.5	EFAF77	4
197	365	7.43	2.8		
219	330	6.68	3.2		
252	285	5.80	3.6		
281	255	5.19	4.1		
339	210	4.31	4.8		
389	184	3.75	5.5		
11kW					
4.9	19000	301	0.95		
5.3	17400	275	1.05	EF 157ER97	4
6.3	14500	230	1.25	EFA 157ER97	4
7.3	12700	201	1.40	EFF 157ER97	4
7.4	12500	198	1.45	EFAF157ER97	4
6.5	14200	225	0.8		



Velocidad de salida Output speed	Par de salida Output torque	Ratio Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fa)		
11kW					
5.5	19200	267.43	0.95		
6.7	15700	217.62	1.15		
8.2	12800	178.20	1.40		
9.0	11700	162.96	1.55		
10	10200	141.80	1.75	EF 157	4
12	9000	125.14	2.0	EFA 157	4
13	7810	108.49	2.3	EFF 157	4
15	6940	96.53	2.6	EFAF157	4
17	6050	84.10	3.0		
19	5530	76.91	3.3		
22	4810	66.92	3.7		
7.5	14000	128.33	0.85		
8.2	12800	117.04	0.95	EF 127	6
9.5	11100	101.29	1.10	EFA 127	6
11	9780	89.38	1.25	EFF 127	6
12	8450	77.19	1.40	EFAF127	6
8.3	12600	174.86	0.95		
9.3	11300	157.30	1.05		
11	9230	128.33	1.30	EF 127	4
12	8420	117.04	1.45	EFA 127	4
14	7290	101.29	1.65	EFF 127	4
16	6430	89.38	1.85	EFAF127	4
19	5550	77.19	2.2		
13	8400	116.71	0.90		
15	7220	100.32	1.05		
16	6660	92.57	1.15		
17	6300	87.57	1.20		
17	6050	84.08	1.25	EF 107	4
20	5370	74.60	1.45	EFA 107	4
22	4870	67.69	1.60	EFF 107	4
25	4190	58.19	1.85	EFAF107	4
29	3650	50.79	2.1		
34	3100	43.08	2.5		
39	2710	37.65	2.8		
46	2290	31.84	3.4		
44	2410	33.44	3.1	EF 107	4
54	1960	27.28	4.0	EFA 107	4
59	1790	24.88	4.4	EFF 107	4
				EFAF107	4
21	5070	70.45	0.85		
23	4590	63.80	0.95		
26	4070	56.57	1.05	EF 97	4
29	3680	51.15	1.15	EFA 97	4
34	3120	43.35	1.40	EFF 97	4
39	2720	37.87	1.60	EFAF97	4
46	2280	31.67	1.90		
48	2190	30.42	1.95	EF 97	4
53	1980	27.46	2.2	EFA 97	4
59	1790	24.94	2.4	EFF 97	4
66	1590	22.13	2.7	EFAF97	4
36	2890	40.19	0.95	EF 87	4
41	2590	35.99	1.00	EFA 87	4
49	2150	29.86	1.15	EFF 87	4
				EFAF87	4
55	1930	26.77	1.55		
61	1720	23.92	1.75		
68	1550	21.54	1.95	EF 87	4
75	1400	19.50	2.1	EFA 87	4
84	1240	17.29	2.4	EFF 87	4
93	1130	15.64	2.7	EFAF87	4
110	950	13.25	3.1		

Velocidad de salida Output speed	Par de salida Output torque	Ratio Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fa)		
11kW					
74	1420	19.70	1.05		
83	1260	17.49	1.20		
93	1130	15.64	1.35		
104	1010	14.06	1.50		
120	880	12.21	1.70		
134	785	10.93	1.90	EF 77	4
156	675	9.36	1.55	EFA 77	4
176	600	8.31	1.75	EFF 77	4
197	535	7.43	1.95	EFAF77	4
219	480	6.68	2.2		
252	415	5.80	2.5		
281	375	5.19	2.8		
339	310	4.31	3.3		
389	270	3.75	3.7		
15kW					
6.3	19800	230	0.90	EF 157ER97	4
7.3	17300	201	1.05	EFA 157ER97	4
7.4	17100	198	1.05	EFF 157ER97	4
				EFAF157ER97	4
8.0	17973	183.18	1.78		
9.7	14748	150.31	2.2	EF 167	4
12	11999	122.29	2.7	EFA 167	4
13	10986	111.97	2.9	EFF 167	4
15	9599	97.84	3.3	EFAF167	4
6.8	20900	141.80	0.85		
7.8	18500	125.14	0.95	EF 157	6
8.9	16000	108.49	1.10	EFA 157	6
10	14300	96.53	1.25	EFF 157	6
12	12400	84.10	1.45	EFAF157	6
6.7	21300	217.62	0.85		
8.2	17500	178.20	1.05		
9.0	16000	162.96	1.15		
10	13900	141.80	1.30		
12	12300	125.14	1.45	EF 157	4
13	10600	108.49	1.70	EFA 157	4
15	9470	96.53	1.90	EFF 157	4
17	8250	84.10	2.2	EFAF157	4
19	7550	76.91	2.4		
22	6570	66.92	2.7		
25	5790	59.06	3.1		
9.6	15000	101.29	0.80		
11	13200	89.38	0.90	EF 127	6
13	11400	77.19	1.05	EFA 127	6
14	10600	71.73	1.15	EFF 127	6
15	9660	65.42	1.25	EFAF127	6
11	12600	128.33	0.95		
12	11500	117.04	1.05	EF 127	4
14	9940	101.29	1.20	EFA 127	4
16	8770	89.38	1.35	EFF 127	4
19	7570	77.19	1.60	EFAF127	4
20	7040	71.73	1.70		
15	9840	100.32	0.80		
16	9080	92.57	0.85		
17	8590	87.57	0.90		
17	8250	84.08	0.95		
20	7320	74.60	1.05	EF 107	4
22	6640	67.69	1.15	EFA 107	4
25	5710	58.19	1.35	EFF 107	4
29	4980	50.79	1.55	EFAF107	4
34	4230	43.08	1.80		
39	3690	37.65	2.1		
46	3120	31.84	2.5		
44	3280	33.44	2.3	EF 107	4
54	2680	27.28	2.9	EFA 107	4
59	2440	24.88	3.2	EFF 107	4
68	2110	21.53	3.7	EFAF107	4

Velocidad de salida Output speed	Par de salida Output torque	Ratio Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fa)		
15kW					
34	4250	43.35	1.00	EF 97	4
39	3720	37.87	1.15	EFA 97	4
46	3110	31.67	1.40	EFF 97	4
				EFAF97	4
48	2980	30.42	1.45		
53	2690	27.46	1.60		
59	2450	24.94	1.75		
66	2170	22.13	2.0	EF 97	4
73	1970	20.08	2.2	EFA 97	4
85	1690	17.26	2.5	EFF 97	4
97	1480	15.07	2.9	EFAF97	4
114	1250	12.78	3.4		
131	1100	11.17	3.7		
55	2630	26.77	1.15		
61	2350	23.92	1.30		
68	2110	21.54	1.40		
75	1910	19.50	1.55		
84	1700	17.29	1.75		
93	1530	15.64	1.95		
110	1300	13.25	2.3	EF 87	4
126	1140	11.58	2.6	EFA 87	4
151	950	9.68	3.0	EFF 87	4
170	840	8.60	1.80	EFAF87	4
191	750	7.63	2.0		
212	675	6.89	2.3		
250	575	5.84	2.7		
296	500	5.10	3.1		
342	420	4.27	3.5		
395	365	3.70	4.0		
18.5kW					
7.3	21200	201	0.85	EF 157ER97	4
7.4	20900	198	0.85	EFA 157ER97	4
				EFF 157ER97	4
				EFAF157ER97	4
9.8	18065	150.31	1.77		
12	14698	122.29	2.2	EF 167	4
13	13457	111.97	2.4	EFA 167	4
17	11759	97.84	2.7	EFF 167	4
17	10457	87.01	3.1	EFAF167	4
8.2	21400	178.20	0.85		
9.0	19600	162.96	0.90		
10	17000	141.80	1.05		
12	15000	125.14	1.20		
14	13000	108.49	1.40	EF 157	4
15	11600	96.53	1.55	EFA 157	4
17	10100	84.10	1.80	EFF 157	4
19	9240	76.91	1.95	EFAF157	4
22	8040	66.92	2.2		
25	7100	59.06	2.5		
29	6150	51.20	2.9		
13	14100	117.04	0.85		
15	12200	101.29	1.00		
16	10700	89.38	1.10	EF 127	4
19	9280	77.19	1.30	EFA 127	4
20	8620	71.73	1.40	EFF 127	4
22	7860	65.42	1.55	EFAF127	4
26	6800	56.61	1.75		
29	6000	49.95	2.0		
20	8970	74.60	0.85		
22	8130	67.69	0.95		
25	6990	58.19	1.10	EF 107	4
29	6100	50.79	1.25	EFA 107	4
34	5180	43.08	1.50	EFF 107	4
39	4520	37.65	1.70	EFAF107	4
46	3830	31.84	2.0		

Velocidad de salida Output speed	Par de salida Output torque	Ratio Ratio	Factor de Servicio Service Factor	Tipo Type	Polo de Motor Motor Pole
[r/min]	[Nm]	(i)	(fa)		
18.5kW					
44	4020	33.44	1.85	EF 107	4
54	3280	27.28	2.4	EFA 107	4
59	2990	24.88	2.6	EFF 107	4
68	2590	21.53	3.0	EFAF107	4
39	4550	37.87	0.95	EF 97	4
46	3810	31.67	1.15	EFA 97	4
				EFF 97	4
				EFAF97	4
54	3300	27.46	1.30		
59	3000	24.94	1.45		
66	2660	22.13	1.60	EF 97	4
73	2410	20.08	1.80	EFA 97	4
85	2070	17.26	2.1	EFF 97	4
98	1810	15.07	2.4	EFAF97	4
115	1540	12.78	2.8		
132	1340	11.17	3.1		
68	2590	21.54	1.15		
75	2340	19.50	1.30		
85	2080	17.29	1.45		
94	1880	15.64	1.60		
111	1590	13.25	1.90		
127	1390	11.58	2.2	EF 87	4
152	1160	9.68	2.5	EFA 87	4
171	1030	8.60	1.50	EFF 87	4
193	920	7.63	1.65	EFAF87	4
213	830	6.89	1.85		
252	700	5.84	2.2		
288	615	5.10	2.5		
344	515	4.27	2.8		



Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio Ratio (i)	Factor de Servicio Service Factor (fs)	Tipo Type	Polo de Motor Motor Pole
22kW					
25	8320	58.19	0.90		
29	7260	50.79	1.05	EF 107	4
34	6160	43.08	1.25	EFA 107	4
39	5380	37.65	1.45	EFF 107	4
46	4550	31.84	1.70	EFAF107	4
44	4780	33.44	1.55		
54	3900	27.28	2.0	EF 107	4
59	3560	24.88	2.2	EFA 107	4
68	3080	21.53	2.5	EFF 107	4
77	2720	19.00	2.9	EFAF107	4
54	3920	27.46	1.10		
59	3560	24.94	1.20		
66	3160	22.13	1.35	EF 97	4
73	2870	20.08	1.50	EFA 97	4
85	2470	17.26	1.75	EFF 97	4
98	2150	15.07	2.0	EFAF97	4
115	1830	12.78	2.4		
132	1600	11.17	2.6		
68	3080	21.54	0.95		
75	2790	19.50	1.10		
85	2470	17.29	1.20		
94	2240	15.64	1.35		
111	1890	13.25	1.60		
127	1650	11.58	1.80	EF 87	4
152	1380	9.68	2.1	EFA 87	4
171	1230	8.60	1.25	EFF 87	4
193	1090	7.63	1.40	EFAF87	4
213	980	6.89	1.55		
252	830	5.84	1.85		
288	730	5.10	2.1		
344	610	4.27	2.4		
397	530	3.70	2.8		
30kW					
12	23835	122.29	1.34		
13	21823	111.97	1.47		
15	19068	97.84	1.68	EF 167	4
17	16958	87.01	1.89	EFA 167	4
19	14774	75.80	2.2	EFF 167	4
22	13181	67.63	2.4	EFAF167	4
26	11235	57.65	2.8		
29	9967	51.14	3.2		
14	21000	108.49	0.85		
15	18700	96.53	0.95		
18	16300	84.10	1.10		
19	14900	76.91	1.20	EF 157	4
22	13000	66.92	1.40	EFA 157	4
25	11400	59.06	1.55	EFF 157	4
29	9910	51.20	1.80	EFAF157	4
19	14900	77.19	0.80		
21	13900	71.73	0.85		
23	12700	65.42	0.95		
26	11000	56.61	1.10	EF 127	4
30	9670	49.95	1.25	EFA 127	4
34	8350	43.14	1.45	EFF 127	4
39	7390	38.16	1.60	EFAF127	4
46	6210	32.07	1.95		
57	5010	25.90	2.4		
54	5320	27.50	1.60	EF 127	4
59	4870	25.15	1.75	EFA 127	4
68	4240	21.88	2.8	EFF 127	4
77	3740	19.31	2.9	EFAF127	4

Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio Ratio (i)	Factor de Servicio Service Factor (fs)	Tipo Type	Polo de Motor Motor Pole
30kW					
34	8340	43.08	0.90	EF 107	4
39	7290	37.65	1.05	EFA 107	4
46	6160	31.84	1.25	EFF 107	4
				EFAF107	4
54	5280	27.28	1.50		
59	4820	24.88	1.65		
69	4170	21.53	1.90	EF 107	4
78	3680	19.00	2.1	EFA 107	4
90	3180	16.41	2.5	EFF 107	4
102	2810	14.51	2.7	EFAF107	4
121	2360	12.20	3.0		
150	1910	9.85	3.4		
67	4280	22.13	1.00		
74	3890	20.08	1.10		
86	3340	17.26	1.30		
98	2920	15.07	1.45		
116	2470	12.78	1.75	EF 97	4
132	2160	11.17	1.90	EFA 97	4
166	1720	8.90	1.35	EFF 97	4
183	1560	8.08	1.50	EFAF97	4
213	1340	6.94	1.75		
244	1170	6.06	1.90		
288	990	5.14	2.2		
330	870	4.49	2.4		
389	735	3.80	2.4		
37kW					
12	29198	122.29	1.10		
13	26733	111.97	1.20		
15	23358	97.84	1.37		
17	20773	87.01	1.54	EF 167	4
20	18098	75.80	1.77	EFA 167	4
22	16147	67.63	1.98	EFF 167	4
26	13763	57.65	2.3	EFAF167	4
29	12210	51.14	2.6		
31	11404	47.76	2.8		
33	10637	44.55	3.0		
18	20100	84.10	0.90		
19	18400	76.91	1.00		
22	16000	66.92	1.15		
25	14100	59.06	1.30	EF 157	4
29	12200	51.20	1.45	EFA 157	4
32	10900	45.55	1.65	EFF 157	4
38	9230	38.65	1.95	EFAF157	4
46	7620	31.90	2.4		
55	6460	27.06	2.8		
26	13500	56.61	0.90		
30	11900	49.95	1.00	EF 127	4
34	10300	43.14	1.15	EFA 127	4
39	9110	38.16	1.30	EFF 127	4
46	7660	32.07	1.55	EFAF127	4
57	6180	25.90	1.95		
54	6560	27.50	1.30		
59	6000	25.15	1.40		
68	5220	21.88	2.3		
77	4610	19.31	2.4		
88	4000	16.74	2.8	EF 127	4
99	3560	14.90	3.1	EFA 127	4
117	3020	12.64	3.3	EFF 127	4
142	2490	10.43	3.8	EFAF127	4
157	2250	9.44	3.1		
176	2000	8.39	3.0		
208	1700	7.12	4.1		

Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio Ratio (i)	Factor de Servicio Service Factor (fs)	Tipo Type	Polo de Motor Motor Pole
37kW					
54	6510	27.28	1.20		
59	5940	24.88	1.30		
69	5140	21.53	1.55		
78	4540	19.00	1.75		
90	3920	16.41	2.0		
102	3460	14.51	2.2	EF 107	4
121	2910	12.20	2.4	EFA 107	4
150	2350	9.85	2.8	EFF 107	4
156	2260	9.47	2.2	EFAF107	4
181	1950	8.18	2.5		
204	1730	7.24	2.7		
243	1450	6.08	3.2		
301	1170	4.91	3.9		
45kW					
12	35511	122.29	0.90		
13	32513	111.97	0.98		
15	28409	97.84	1.13		
17	25265	87.01	1.27	EF 167	4
20	22011	75.80	1.45	EFA 167	4
22	19639	67.63	1.63	EFF 167	4
26	16739	57.65	1.91	EFAF167	4
29	14850	51.14	2.2		
31	13870	47.76	2.3		
33	12937	44.55	2.5		
22	19400	66.92	0.95		
25	17100	59.06	1.05		
29	14900	51.20	1.20	EF 157	4
32	13200	45.55	1.35	EFA 157	4
38	11200	38.65	1.60	EFF 157	4
46	9260	31.90	1.95	EFAF157	4
55	7860	27.06	2.3		
30	14500	49.95	0.85		
34	12500	43.14	0.95	EF 127	4
39	11100	38.16	1.10	EFA 127	4
46	9310	32.07	1.30	EFF 127	4
57	7520	25.90	1.60	EFAF127	4
54	7980	27.50	1.05		
59	7300	25.15	1.15		
68	6350	21.88	1.90		
77	5610	19.31	1.95		
88	4860	16.74	2.3		
99	4330	14.90	2.5	EF 127	4
117	3670	12.64	2.7	EFA 127	4
142	3030	10.43	3.1	EFF 127	4
157	2740	9.44	2.6	EFAF127	4
176	2440	8.39	2.5		
208	2070	7.12	3.4		
252	1710	5.88	3.5		
297	1450	4.99	4.1		
54	7920	27.28	1.00		
59	7220	24.88	1.10		
69	6250	21.53	1.25		
78	5520	19.00	1.40		
90	4760	16.41	1.65		
102	4210	14.51	1.80	EF 107	4
121	3540	12.20	2.0	EFA 107	4
150	2860	9.85	2.3	EFF 107	4
156	2750	9.47	1.80	EFAF107	4
181	2370	8.18	2.0		
204	2100	7.24	2.2		
243	1770	6.08	2.6		
301	1430	4.91	3.2		

Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio Ratio (i)	Factor de Servicio Service Factor (fs)	Tipo Type	Polo de Motor Motor Pole
55kW					
15	34722	97.84	0.92		
17	30879	87.01	1.04		
20	26902	75.80	1.19		
22	24003	67.63	1.33		
26	20459	57.65	1.56	EF 167	4
29	18149	51.14	1.76	EFA 167	4
31	16952	47.76	1.89	EFF 167	4
33	15812	44.55	2.0	EFAF167	4
37	14108	39.75	2.3		
44	12025	33.88	2.7		
53	9964	28.07	3.2		
25	21000	59.06	0.85		
29	18200	51.20	1.00	EF 157	4
32	16200	45.55	1.10	EFA 157	4
38	13700	38.65	1.30	EFF 157	4
46	11300	31.90	1.60	EFAF157	4
55	9600	27.06	1.85		
52	10100	28.60	1.70		
58	9020	25.43	1.65	EF 157	4
67	7860	22.16	2.3	EFA 157	4
75	7020	19.77	2.4	EFF 157	4
88	5980	16.85	3.0	EFAF157	4
39	13500	38.16	0.90	EF 127	4
46	11400	32.07	1.05	EFA 127	4
57	9190	25.90	1.30	EFF 127	4
				EFAF127	4
68	7760	21.88	1.55		
77	6850	19.31	1.60		
88	5940	16.74	1.85		
99	5290	14.90	2.1		
117	4490	12.64	2.2	EF 127	4
142	3700	10.43	2.6	EFA 127	4
157	3350	9.44	2.1	EFF 127	4
176	2980	8.39	2.0	EFAF127	4
208	2530	7.12	2.8		
252	2090	5.88	2.9		
297	1770	4.99	3.4		
75kW					
22	32731	67.63	0.98		
26	27898	57.65	1.15		
29	24749				



Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio Ratio [i]	Factor de Servicio Service Factor [fs]	Tipo Type	Polo de Motor Motor Pole				
75kW									
68	10600	21.88	1.15	EF 127 EFA 127 EFF 127 EFAF127	4				
77	9340	19.31	1.20						
88	8100	16.74	1.35						
99	7210	14.90	1.55						
117	6120	12.64	1.65						
142	5050	10.43	1.90						
157	4570	9.44	1.55						
176	4060	8.39	1.50						
208	3450	7.12	2.0						
252	2850	5.88	2.1						
297	2410	4.99	2.5						
90kW									
26	33365	57.65	0.96			EF 167 EFA 167 EFF 167 EFAF167	4		
29	29599	51.14	1.08						
31	27646	47.76	1.16						
33	25787	44.55	1.24						
37	23008	39.75	1.39						
44	19611	33.88	1.63						
53	16249	28.07	1.97						
62	13868	23.96	2.3						
63	13632	23.55	2.3						
70	12227	21.13	2.6						
81	10616	18.34	3.0						
89	9632	16.64	3.3						
47	18500	31.90	1.00						
55	15700	27.06	1.15						
110kW									
67	12800	22.16	1.40	EF 157 EFA 157 EFF 157 EFAF157	4				
75	11400	19.77	1.50						
88	9750	16.85	1.85						
106	8080	13.96	2.1						
125	6900	11.92	2.3						
57	15000	25.90	0.80			EF 127 EFA 127 EFF 127 EFAF127	4		
89	9690	16.74	1.15						
100	8620	14.90	1.30						
117	7320	12.64	1.35						
142	6040	10.43	1.55			EF 127 EFA 127 EFF 127 EFAF127	4		
157	5460	9.44	1.30						
177	4860	8.39	1.25						
209	4120	7.12	1.70						
253	3400	5.88	1.75						
298	2890	4.99	2.1						
110kW									
31	33789	47.76	0.95	EF 167 EFA 167 EFF 167 EFAF167	4				
33	31518	44.55	1.02						
37	28121	39.75	1.14						
44	23969	33.88	1.34						
53	19860	28.07	1.61						
62	16949	23.96	1.89						
81	12975	18.34	2.5					EF 167 EFA 167 EFF 167 EFAF167	4
89	11773	16.64	2.7						
104	10141	14.34	3.2						
123	8523	12.05	3.8						
55	19100	27.06	0.95			EF 157 EFA 157 EFF 157 EFAF157	4		

Velocidad de salida Output speed [r/min]	Par de salida Output torque [Nm]	Ratio Ratio [i]	Factor de Servicio Service Factor [fs]	Tipo Type	Polo de Motor Motor Pole		
110kW							
67	15700	22.16	1.15	EF 157 EFA 157 EFF 157 EFAF157	4		
75	14000	19.77	1.20				
88	11900	16.85	1.50				
106	9870	13.96	1.70				
125	8430	11.92	1.90				
132kW							
37	33745	39.75	0.95	EF 167 EFA 167 EFF 167 EFAF167	4		
44	28763	33.88	1.11				
53	23832	28.07	1.34				
62	20339	23.96	1.57				
81	15571	18.34	2.1			EF 167 EFA 167 EFF 167 EFAF167	4
89	14127	16.64	2.3				
104	12169	14.34	2.6				
123	10227	12.05	3.1				
142	8855	10.43	3.6				
67	18800	22.16	0.95	EF 157 EFA 157 EFF 157 EFAF157	4		
75	16800	19.77	1.00				
88	14300	16.85	1.25				
106	11800	13.96	1.45				
125	10100	11.92	1.60				
160kW							
44	34864	33.88	0.92	EF 167 EFA 167 EFF 167 EFAF167	4		
53	28887	28.07	1.11				
62	24654	23.96	1.30				
81	18873	18.34	1.70			EF 167 EFA 167 EFF 167 EFAF167	4
89	17124	16.64	1.87				
104	14751	14.34	2.2				
123	12397	12.05	2.6				
142	10733	10.43	3.0				
171	8945	8.69	3.6				
200	7626	7.41	4.2				
88	17300	16.85	1.05	EF 157 EFA 157 EFF 157 EFAF157	4		
106	14400	13.96	1.20				
125	12300	11.92	1.30				
200kW							
53	36109	28.07	0.89	EF 167 EFA 167 EFF 167 EFAF167	4		
62	30817	23.96	1.04				
81	23592	18.34	1.36			EF 167 EFA 167 EFF 167 EFAF167	4
89	21405	16.64	1.49				
104	18438	14.34	1.74				
123	15496	12.05	2.1				
142	13417	10.43	2.4				
171	11181	8.69	2.9				
200	9533	7.41	3.4				
88	21700	16.85	0.85	EF 157 EFA 157 EFF 157 EFAF157	4		
106	18000	13.96	0.95				
125	15300	11.92	1.05				

Forma de parámetro de selección del modelo de par constante de la serie EF
Constant torque model selection parameter form of EF series

Velocidad de salida Output speed [r/min]	Ratio Ratio [i]	Tipo Type	Potencia Power [kW/4P]
200Nm			
0.17	8193	EF 37ER17 EFA 37ER17 EFF 37ER17 EFAF37ER17	0.12
0.20	6909		
0.21	6760		
0.24	5756		
0.28	4962		
0.32	4336		
0.36	3875		
0.41	3392		
0.47	2965		
0.54	2587		
0.61	2284		
0.70	1996		
0.72	1929		
0.83	1679		
0.90	1550		
1.0	1356		
1.2	1180		
1.3	1036		
1.5	914		
1.7	808		
2.0	698		
2.3	616		
2.6	544		
3.0	466		
3.4	411		
3.8	364		
4.3	326		
4.9	285		
5.6	250		
6.3	219		
7.5	186		
8.3	167		
9.6	145		
11	129		
400Nm			
0.11	12637	EF 47ER17 EFA 47ER17 EFF 47ER17 EFAF47ER17	0.12
0.14	10296		
0.14	9651		
0.16	8517		
0.18	7550		
0.21	6562		
0.24	5734		
0.27	5084		
0.31	4418		
0.36	3910		
0.40	3445		
0.47	2946		
0.53	2599		
0.59	2371		
0.62	2226		
0.68	2044		
0.78	1789		
0.89	1561		
1.0	1378		
1.2	1178		
1.3	1063		
1.5	928		
1.7	822		
2.0	699		
2.2	622		

Velocidad de salida Output speed [r/min]	Ratio Ratio [i]	Tipo Type	Potencia Power [kW/4P]		
400Nm					
2.7	518	EF 47ER17 EFA 47ER17 EFF 47ER17 EFAF47ER17	0.18		
2.8	493				
3.2	429				
3.6	383				
4.1	335				
4.7	295				
5.5	251				
6.3	219				
7.4	188				
7.8	179				
9.3	149				
11	131				
600Nm					
0.09	14831			EF 57ER37 EFA 57ER37 EFF 57ER37 EFAF57ER37	0.12
0.10	13604				
0.11	12601				
0.12	11251				
0.14	9986				
0.16	8786				
0.18	7908				
0.20	6913				
0.23	6102				
0.26	5289				
0.30	4654				
0.34	4039				
0.39	3565				
0.44	3160				
0.49	2854				
0.54	2576				
0.61	2266				
0.69	2012				
0.78	1791				
0.86	1617				
0.98	1423				
1.1	1244				
1.3	1066				
1.5	949				
1.6	856				
1.9	749				
2.1	659				
2.5	549				
2.9	483				
3.3	426				
3.6	382				
4.2	330				
4.7	298				
5.3	262				
6.2	226				
7.0	200				
8.2	170				
9.1	152				
10	134				



Velocidad de salida Output speed (r/min)	Ratio Ratio (i)	Tipo Type	Potencia Power (kW)/4P
820Nm			
0.07	19207		0.12
0.08	17618		
0.09	15000		
0.11	12933		
0.12	11486		
0.14	10224		
0.16	8937		
0.17	7945		
0.20	7099		
0.23	6083		
0.26	5352		
0.30	4667		
0.34	4093		
0.39	3574		
0.44	3134		
0.50	2757		
0.56	2472		
0.42	3317	EF 67ER37 EFA 67ER37 EFF 67ER37 EFAF67ER37	0.12
0.46	3011		
0.52	2669		
0.59	2351		
0.65	2130		
0.76	1829		
0.87	1605		
0.95	1464		
1.1	1252		
1.2	1128		
1.4	969		
1.6	859		
1.9	727		0.18
2.2	639		
2.6	539		
0.74	1885		
2.8	497		0.25
3.1	449		
3.6	385		
4.1	339		0.12
4.7	296		
5.3	262		
5.9	234		
7.0	200		
1500Nm			
0.07	19180	EF 77ER37 EFA 77ER37 EFF 77ER37 EFAF77ER37	0.12
0.08	17592		
0.09	15967		
0.09	14978		
0.10	13594		
0.12	12049		
0.13	10925		
0.14	9683		
0.16	8464		
0.18	7519		
0.21	6581		
0.24	5807		
0.27	5058		
0.31	4494		
0.36	3832		
0.41	3362		
0.47	2987		
0.53	2611		
0.60	2315		

Velocidad de salida Output speed (r/min)	Ratio Ratio (i)	Tipo Type	Potencia Power (kW)/4P		
1500Nm					
0.68	2056	EF 77ER37 EFA 77ER37 EFF 77ER37 EFAF77ER37	0.18		
0.81	1711				
0.90	1543				
1.0	1354				
1.2	1203				
1.3	1057				
1.5	913				
1.7	810				
2.0	710				
2.3	615				
2.6	538		0.37		
2.9	480				
3.4	410				
3.8	370				
4.3	324				
3000Nm					
0.06	22977				0.12
0.07	20766				
0.08	18185				
0.09	15831				
0.10	14017				
0.11	12170				
0.13	10424				
0.15	9359				
0.17	8061				
0.19	7156				
0.22	6280				
0.25	5501				
0.28	4985				
0.33	4189				
0.38	3700				
0.43	3207	EF 87ER57 EFA 87ER57 EFF 87ER57 EFAF87ER57	0.18		
0.48	2926				
0.55	2521				
0.63	2200				
0.71	1951				
0.81	1715		0.18		
0.93	1500				
1.1	1302				
1.2	1150				
1.4	1008				
1.6	895				
1.8	779				
2.1	677				
2.3	611				
2.8	507				
3.1	453		0.25		
4.1	340				
0.81	1715				0.37
0.93	1500				
1.1	1302				
1.2	1150				
1.4	1008				
1.6	895				
1.8	779				
2.1	677				
2.3	611				
2.8	507				
3.1	453				
4.1	340				

Velocidad de salida Output speed (r/min)	Ratio Ratio (i)	Tipo Type	Potencia Power (kW)/4P		
4300Nm					
0.07	20799		0.12		
0.08	18233				
0.09	15467				
0.10	14046				
0.11	12329				
0.13	10933				
0.15	9453				
0.17	8320				
0.19	7318				
0.22	6397				
0.25	5624				
0.28	4937				
0.32	4355				
0.36	3863				
0.41	3361				
0.48	2895				
0.55	2547			EF 97ER57 EFA 97ER57 EFF 97ER57 EFAF97ER57	0.37
0.62	2249				
0.70	1979				
0.81	1722				
0.91	1532				
1.0	1327				
1.2	1173				
1.4	1025				
1.6	903				
1.8	797				
2.0	690				
2.3	603		1.1		
2.6	534				
3.0	468				
3.5	407				
3.9	362				
5.1	280		1.5		
5.8	246				
7.0	200				
7680Nm					
0.05	25371		0.12		
0.06	21656				
0.07	18998				
0.08	16892				
0.09	14724				
0.12	11398				
0.14	10009				
0.16	8452				
0.18	7630				
0.21	6717				
0.23	5944				
0.27	5235				
0.30	4645				
0.35	4020				
0.39	3564				
0.45	3118			EF 107ER77 EFA 107ER77 EFF 107ER77 EFAF107ER77	0.25
0.51	2724				
0.58	2377				
0.70	2000				
0.81	1722				
0.91	1532		0.37		
1.0	1327				
1.2	1173				
1.4	1025				
1.6	903				
1.8	797				
2.0	690				
2.3	603				
2.6	534				
3.0	468				
3.5	407		0.55		
3.9	362				
5.1	280				
5.8	246				
7.0	200				

Velocidad de salida Output speed (r/min)	Ratio Ratio (i)	Tipo Type	Potencia Power (kW)/4P		
7680Nm					
0.67	2080		0.75		
0.76	1831				
0.88	1596				
0.99	1416				
1.1	1235				
1.3	1084				
1.5	956				
1.7	848				
1.9	746				
2.2	641				
2.6	555				
2.9	492				
3.3	436				
3.9	370				
4.3	333				
12000Nm					
0.06	24541				0.12
0.06	22076				
0.07	18792				
0.08	16533				
0.09	14873				
0.11	12997				
0.12	11458				
0.14	10063				
0.16	8853				
0.18	7520				
0.21	6735				
0.23	5926				
0.27	5128				
0.31	4525				
0.36	3908				
0.40	3451	EF 127ER77 EFA 127ER77 EFF 127ER77 EFAF127ER77	0.37		
0.46	3032				
0.54	2575				
0.59	2372				
0.70	2011				
0.79	1774				
0.89	1578				
1.0	1399				
1.2	1218				
1.3	1068				
1.5	929				
1.7	825		0.55		
2.0	717				
2.2	654				
2.6	555				
3.0	487				
3.3	430		1.1		
3.8	381				



Ratio Ratio	Velocidad de salida Output speed	Torsión Permisible Torque	Clasificación de potencia nominal Nominal Power Rating	Tipo Type	
(i)	[r/min]	[Nm]	[kW]		
281.71	5.0	1500	0.86	AD2	
260.59	5.4	1500	0.93		
225.79	6.2	1500	1.1		
198.31	7.1	1500	1.2		
186.64	7.5	1500	1.3		
166.47	8.4	1500	1.5		
142.27	9.8	1500	1.7		
129.12	11	1500	1.9		
114.45	12	1500	2.1		
108.46	13	1500	2.2		
94.93	15	1500	2.5		
85.52	16	1500	2.8		
75.02	19	1500	3.2		
73.45	19	1500	3.3		
66.66	21	1500	3.6		
59.09	24	1500	4.1		
56.00	25	1500	4.3		
49.01	29	1500	4.9		
44.15	32	1500	5.5	AD3	
38.73	36	1500	6.2		
34.18	41	1500	7.1		
30.30	46	1500	8.0		
25.87	54	1450	9.0		
36.58	38	1110	4.7	AD3	
31.51	44	1110	5.5		
28.75	49	1200	6.5		
25.50	55	1500	9.2	AD4	
21.43	65	1500	10.9		
19.70	71	1500	11.9		
17.49	80	1500	13.4		
15.64	90	1500	15.0		
14.06	100	1420	15.7		
12.21	115	1280	16.4		
10.93	128	1180	16.8		
9.36	150	810	13.5		
8.31	168	765	14.4		
7.43	188	720	15.1		
6.68	210	670	15.6		
5.80	241	605	16.3		
5.19	270	555	16.7		
4.31	325	470	17.0		
3.75	374	470	19.6		
273.43	5.1	3000	1.8		AD2
257.97	5.4	3000	1.9		
231.26	6.1	3000	2.1		
199.21	7.0	3000	2.4		
181.80	7.7	3000	2.7		
161.23	8.7	3000	3.0		
135.53	10	3000	3.6		
124.55	11	3000	3.9		
110.60	13	3000	4.4		
98.89	14	3000	4.9		
88.91	16	3000	5.4		
77.17	18	3000	6.3		
69.10	20	3000	7.0	AD3	
57.33	24	3000	8.4		
51.50	27	2940	9.2		
46.31	30	2820	9.8		
40.19	35	2720	10.9	AD4	
35.99	39	2610	11.7		
29.86	47	2510	13.5		
34.27	41	2560	11.7	AD4	
29.07	48	2390	12.8		

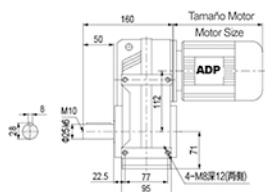
Ratio Ratio	Velocidad de salida Output speed	Torsión Permisible Torque	Clasificación de potencia nominal Nominal Power Rating	Tipo Type	
(i)	[r/min]	[Nm]	[kW]		
26.77	52	3000	17.5	AD5	
23.92	59	3000	20		
21.54	65	3000	22		
19.50	72	3000	24		
17.29	81	3000	27		
15.64	90	3000	30		
13.25	106	3000	35		
11.58	121	3000	40		
9.68	145	2880	46		
8.60	163	1530	28		
7.63	184	1530	31		
6.89	203	1530	35		
5.84	240	1530	41		
5.10	274	1510	46		
4.27	328	1260	46		
3.70	379	1260	53		
276.99	5.1	4300	2.5		AD3
253.61	5.5	4300	2.7		
224.06	6.2	4300	3.1		
190.07	7.4	4300	3.6		
175.01	8.0	4300	4.0		
156.43	8.9	4300	4.4		
140.82	9.9	4300	4.9		
127.52	11	4300	5.4		
113.08	12	4300	6.1		
102.24	14	4300	6.8		
95.09	15	4300	7.3		
87.55	16	4300	7.9		
86.66	16	4300	8.0		
78.26	18	4300	8.9	AD4	
75.69	18	4300	9.2		
70.45	20	4300	9.8		
63.80	22	4300	10.9		
56.57	25	4300	12.2		
51.15	27	4300	13.5		
43.35	32	4300	16.0		
37.87	37	4300	18.3		
31.67	44	4300	22		
30.42	46	4300	22		AD5
27.46	51	4300	24		
24.94	56	4300	27		
22.13	63	4300	30		AD6
20.08	70	4300	33		
17.26	81	4300	39		
15.07	93	4300	45		
12.78	110	4300	52		
11.17	125	4100	57		
8.90	157	2360	41		
8.08	173	2360	46		
6.94	202	2360	53		
6.06	231	2250	58		
5.14	272	1930	59		
4.49	312	1690	59		
3.80	369	1690	69		
251.75	5.6	7680	4.9	AD4	
213.13	6.6	7680	5.8		
197.24	7.1	7680	6.3		
176.78	7.9	7680	7.0		
159.60	8.8	7680	7.8		
144.96	9.7	7680	8.5		
128.62	11	7680	9.6		
116.71	12	7680	10.6		
100.32	14	7680	12.3		
92.57	15	7680	13.4		
87.57	16	7680	14.1		
84.08	17	7680	14.7		
74.60	19	7680	16.6		

Ratio Ratio	Velocidad de salida Output speed	Torsión Permisible Torque	Clasificación de potencia nominal Nominal Power Rating	Tipo Type	
(i)	[r/min]	[Nm]	[kW]		
67.69	21	7680	18.3	AD4	
58.19	24	7680	21		
50.79	28	7680	24	AD5	
43.08	32	7680	29		
37.65	37	7680	33		
31.84	44	7680	39		
33.44	42	7400	35	AD5	
27.28	51	7840	45		
24.88	56	7840	49	AD6	
21.53	65	7840	57		
19.00	74	7090	58		
16.41	85	6120	58		
14.51	96	5410	58		
12.20	115	4540	58		
9.85	142	4000	63		
9.47	148	3580	59		
8.18	171	3090	59		
7.24	193	2730	59		
6.08	230	2290	59		
4.91	285	2290	73		
174.86	8.0	12000	11.1		AD4
157.30	8.9	12000	12.3		
128.33	11	12000	15.1		
117.04	12	12000	16.5		
101.29	14	12000	19		AD5
89.38	16	12000	22		
77.19	18	12000	25		
71.73	20	12000	27	AD5	
65.42	21	12000	30		
56.61	25	12000	34	AD6	
49.95	28	12000	39		
43.14	32	12000	45		
38.16	37	12000	51		
32.07	44	12000	60	AD7	
25.90	54	12000	75		
27.50	51	8500	48	AD7	
25.15	56	8500	53		
21.88	64	12000	86	AD8	
19.31	72	10800	87		
16.74	84	11000	102		
14.90	94	11000	115		
12.64	111	10000	123		
10.43	134	9040	135		
9.44	148	7000	116		
8.39	167	6000	111		
7.12	197	6030	132		
5.88	238	4900	130		
4.99	281	4150	130		
267.43	5.2	18000	10.8		AD5
217.62	6.4	18000	13.3		
178.20	7.9	18000	16.3		
162.96	8.6	18000	17.8		
141.80	9.9	18000	20		
125.14	11	18000	23		
108.49	13	18000	27		
96.53	15	18000	30		
84.10	17	18000	34	AD6	
76.91	18	18000	38		
66.92	21	18000	43		
59.06	24	18000	49		
51.20	27	18000	57	AD7	
45.55	31	18000	64		

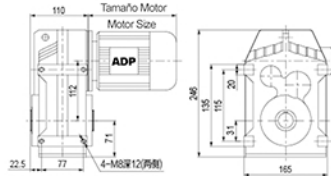
Ratio Ratio	Velocidad de salida Output speed	Torsión Permisible Torque	Clasificación de potencia nominal Nominal Power Rating	Tipo Type
(i)	[r/min]	[Nm]	[kW]	
38.65	36	18000	75	AD8
31.90	44	18000	91	
27.06	52	18000	107	
53.55	26	8000	23	AD5
43.94	32	10000	35	
35.75	39	11000	48	AD7
28.60	49	17000	93	
25.43	55	15000	92	AD8
22.16	63	18000	127	
19.77	71	17000	134	
16.85	83	18000	167	
13.96	100	17000	190	
11.92	117	16000	209	
EF 157				
EFA 157				
EFF 157				
EFAF157				



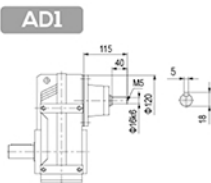
EF37



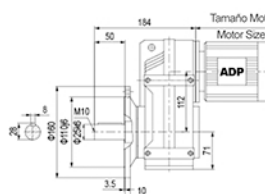
EFAB37



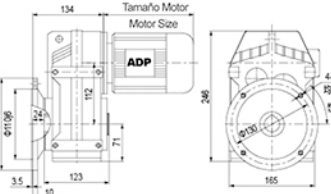
EF..S37



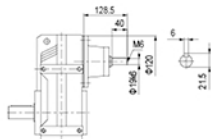
EFF37



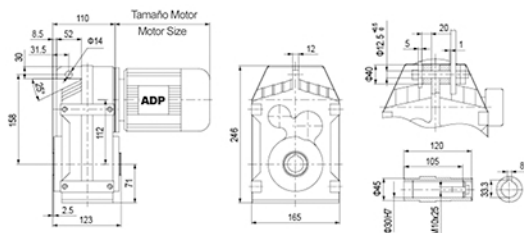
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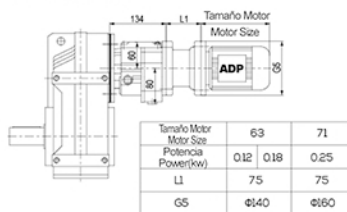
AD2



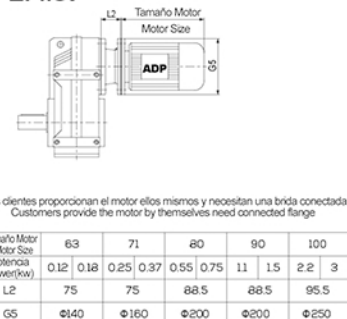
EFA37



EF..37ER17

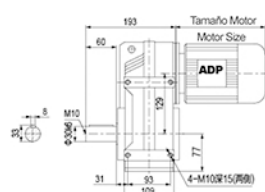


EF..37

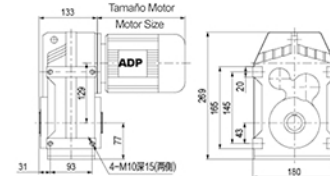


1. Las carcasas anteriores son piezas comunes. Las dimensiones de montaje podrán consultarse entre sí.
2. "EF.." significa todos los tipos de montaje de la serie EF.
3. Los ejes de salida de EFA, EFAF, EFAZ, EFAB son piezas comunes y las dimensiones son las mismas.
4. Con el tipo de montaje de placa de expansión, consulte P007 para conocer el tamaño detalles de placa de expansión.

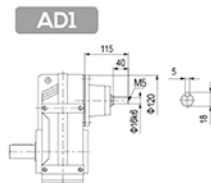
EF47



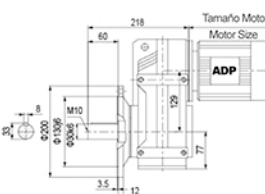
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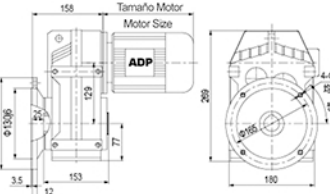
EF..S47



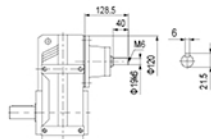
EFF47



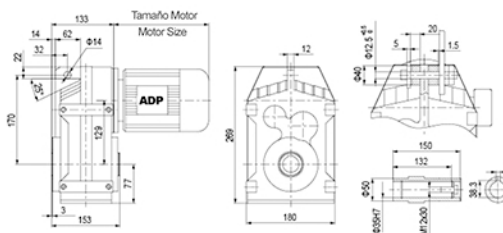
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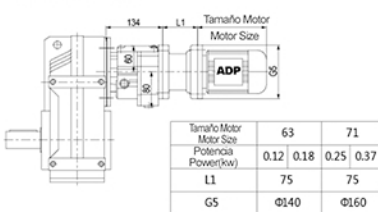
AD2



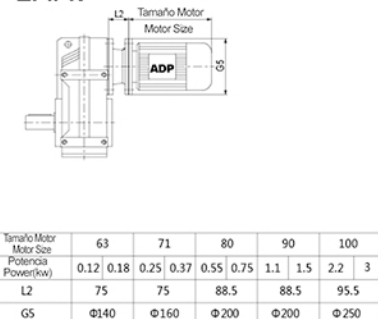
EFA47



EF..47ER17



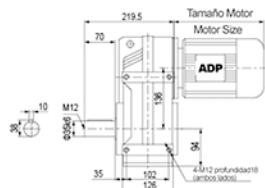
EF..47



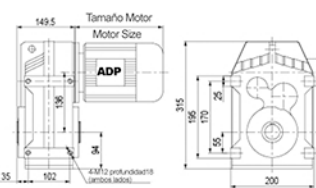
1. Las carcasas anteriores son piezas comunes. Las dimensiones de montaje podrán consultarse entre sí.
2. "EF.." significa todos los tipos de montaje de la serie EF.
3. Los ejes de salida de EFA, EFAF, EFAZ, EFAB son piezas comunes y las dimensiones son las mismas.
4. Con el tipo de montaje de placa de expansión, consulte P007 para conocer el tamaño detalles de placa de expansión.



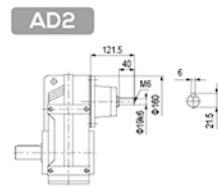
EF57



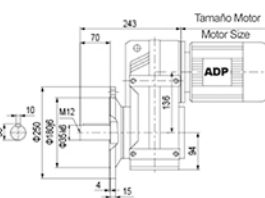
EFAB57



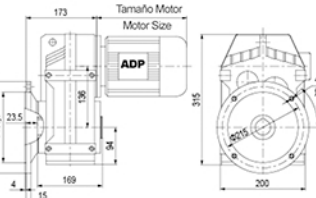
EF..S57



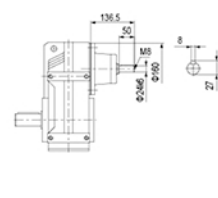
EFF57



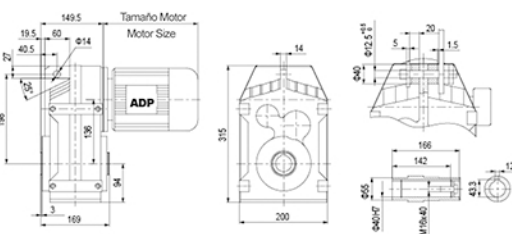
EFAF57



AD3



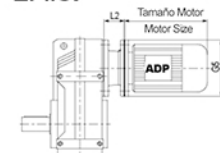
EFA57



EF..57ER37

Tamaño Motor Motor Size	63	71
Potencia Power(kw)	0.12 0.18	0.25 0.37
L1	75	75
G5	Ø140	Ø160

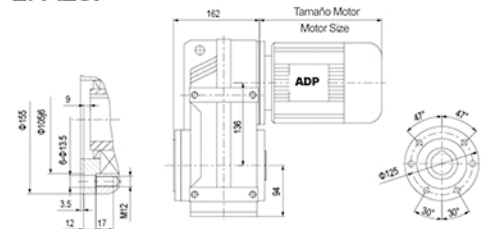
EF..57



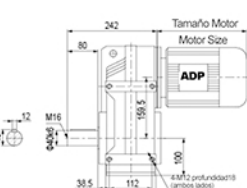
Los clientes proporcionan el motor ellos mismos y necesitan una brida conectada.
Customers provide the motor by themselves need connected flange

Tamaño Motor Motor Size	63	71	80	90	100	112	132
Potencia Power(kw)	0.12 0.18	0.25 0.37	0.55 0.75	1.1 1.5	2.2 3	4	5.5
L2	68	68	81.5	81.5	88.5	88.5	124.5
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300

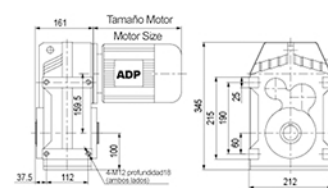
EFAZ57



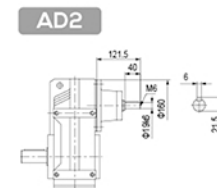
EF67



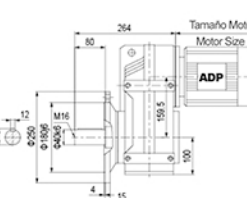
EFAB67



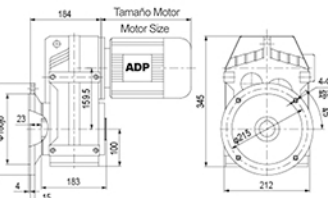
EF..S67



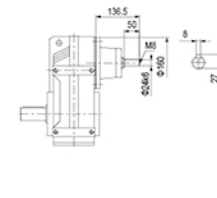
EFF67



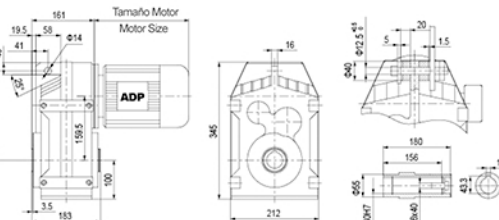
EFAF67



AD3



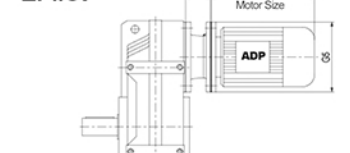
EFA67



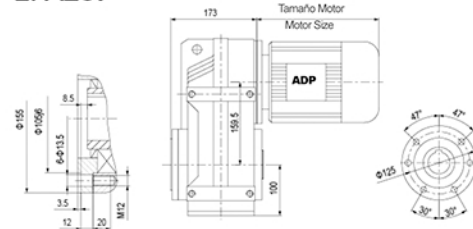
EF..67ER37

Tamaño Motor Motor Size	63	71	80
Potencia Power(kw)	0.12 0.18	0.25 0.37	0.55
L1	75	75	88.5
G5	Ø140	Ø160	Ø200

EF..67



EFAZ67



Tamaño Motor Motor Size	63	71	80	90	100	112	132
Potencia Power(kw)	0.18 0.25	0.37 0.55	0.75	1.1 1.5	2.2 3	4	5.5
L2	68	68	81.5	81.5	88.5	88.5	124.5
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300

1. Las carcasas anteriores son piezas comunes. Las dimensiones de montaje podrán consultarse entre sí.
2. "EF.." significa todos los tipos de montaje de la serie EF.
3. Los ejes de salida de EFA, EFAF, EFAZ, EFAB son piezas comunes y las dimensiones son las mismas.
4. Con el tipo de montaje de placa de expansión, consulte P007 para conocer el tamaño detalles de placa de expansión.

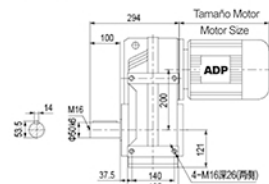
1. The housings above are common parts. The mounting dimensions may consult each other.
2. "EF.." mean all mounting type of EF series.
3. The output shafts of EFA, EFAF, EFAZ, EFAB are common parts, dimensions are the same.
4. With expansion plate mounting type, see P007 for size details of expansion plate.

1. Las carcasas anteriores son piezas comunes. Las dimensiones de montaje podrán consultarse entre sí.
2. "EF.." significa todos los tipos de montaje de la serie EF.
3. Los ejes de salida de EFA, EFAF, EFAZ, EFAB son piezas comunes y las dimensiones son las mismas.
4. Con el tipo de montaje de placa de expansión, consulte P007 para conocer el tamaño detalles de placa de expansión.

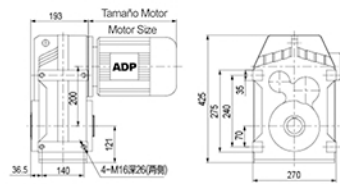
1. The housings above are common parts. The mounting dimensions may consult each other.
2. "EF.." mean all mounting type of EF series.
3. The output shafts of EFA, EFAF, EFAZ, EFAB are common parts, dimensions are the same.
4. With expansion plate mounting type, see P007 for size details of expansion plate.



EF77

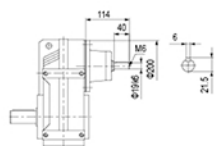


EFAB77

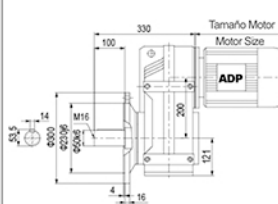


EF..S77

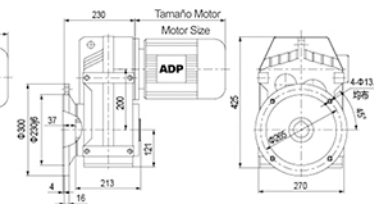
AD2



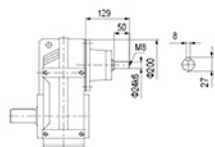
EFF77



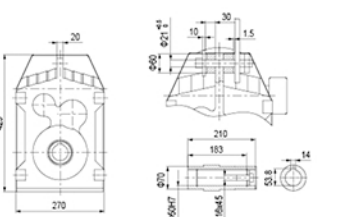
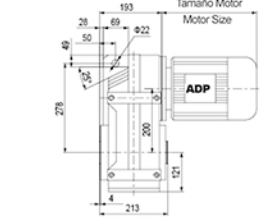
EFAF77



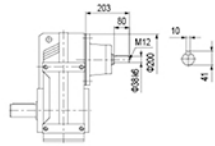
AD3



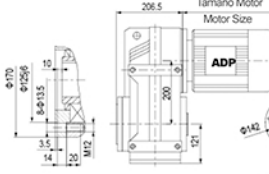
EFA77



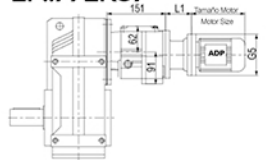
AD4



EFAZ77

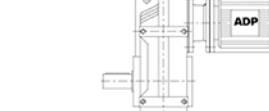


EF..77ER37



Tamaño Motor Motor Size	63	71	80			
Potencia Power(kw)	0.12	0.18	0.25	0.37	0.55	0.75
L1	75	75	88.5			
G5	Ø140	Ø160	Ø200			

EF..77

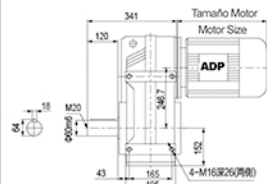


Los clientes proporcionan el motor ellos mismos y necesitan una brida conectada.
Customers provide the motor by themselves need connected flange.

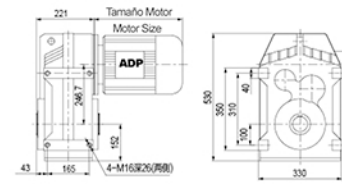
Tamaño Motor Motor Size	71	80	90	100	112	132	160				
Potencia Power(kw)	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11
L2	60.5	74	74	81	81	117	156				
G5	Ø160	Ø200	Ø200	Ø250	Ø250	Ø300	Ø350				

1. Las carcasas anteriores son piezas comunes. Las dimensiones de montaje podrán consultarse entre sí.
2. "EF.." significa todos los tipos de montaje de la serie EF.
3. Los ejes de salida de EFA, EFAF, EFAZ, EFAB son piezas comunes y las dimensiones son las mismas.
4. Con el tipo de montaje de placa de expansión, consulte P008 para conocer el tamaño detalles de placa de expansión.
1. The housings above are common parts. The mounting dimensions may consult each other.
2. "EF.." mean all mounting type of EF series.
3. The output shafts of EFA, EFAF, EFAZ, EFAB are common parts, dimensions are the same.
4. With expansion plate mounting type, see P008 for size details of expansion plate.

EF87

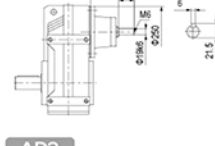


EFAB87

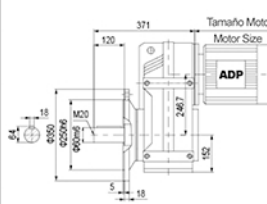


EF..S87

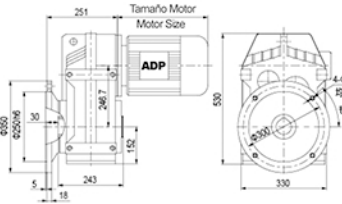
AD2



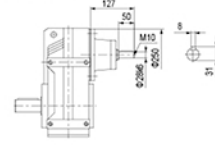
EFF87



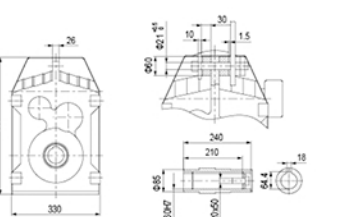
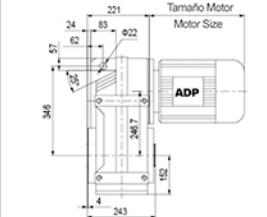
EFAF87



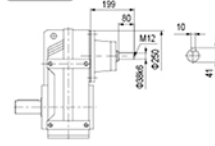
AD3



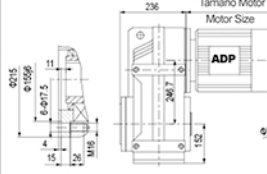
EFA87



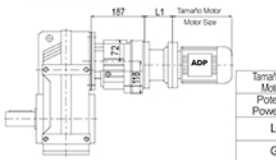
AD4



EFAZ87

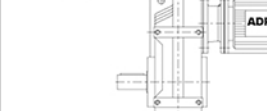


EF..87ER57



Tamaño Motor Motor Size	63	71	80	90				
Potencia Power(kw)	0.12	0.18	0.25	0.37	0.55	0.75	1.1	1.5
L1	68	68	81.5	81.5				
G5	Ø140	Ø160	Ø200	Ø200				

EF..87

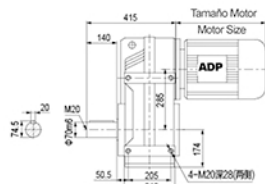


Tamaño Motor Motor Size	80	90	100	112	132	160	180					
Potencia Power(kw)	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
L2	72	72	79	79	113	152	152					
G5	Ø200	Ø200	Ø250	Ø250	Ø300	Ø350	Ø350					

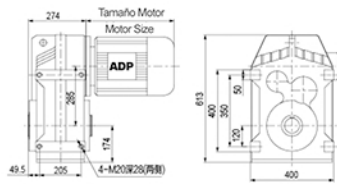
1. Las carcasas anteriores son piezas comunes. Las dimensiones de montaje podrán consultarse entre sí.
2. "EF.." significa todos los tipos de montaje de la serie EF.
3. Los ejes de salida de EFA, EFAF, EFAZ, EFAB son piezas comunes y las dimensiones son las mismas.
4. Con el tipo de montaje de placa de expansión, consulte P008 para conocer el tamaño detalles de placa de expansión.
1. The housings above are common parts. The mounting dimensions may consult each other.
2. "EF.." mean all mounting type of EF series.
3. The output shafts of EFA, EFAF, EFAZ, EFAB are common parts, dimensions are the same.
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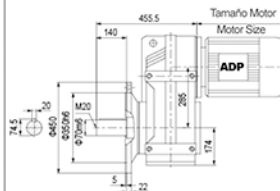
EF97



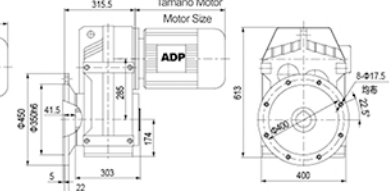
EFAB97



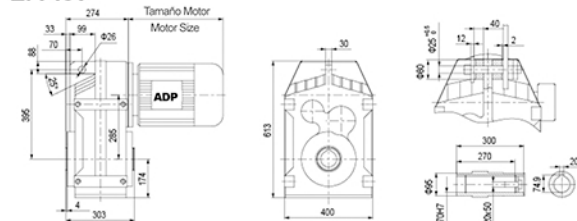
EFF97



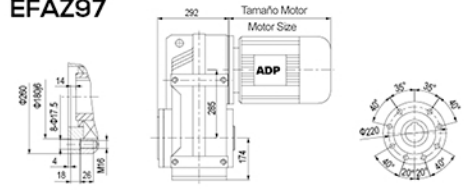
EFAF97



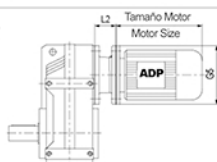
EFA97



EFAZ97



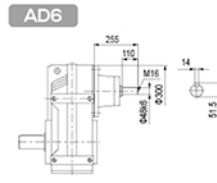
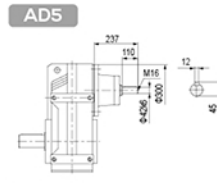
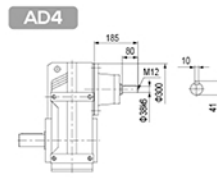
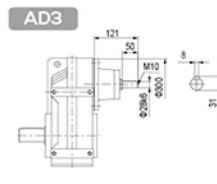
EF..97



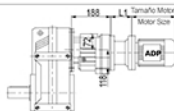
Los clientes proporcionan el motor ellos mismos y necesitan una brida conectada.
Customers provide the motor by themselves need connected flange

Tamaño Motor Motor Size	90	100	112	132	160	180	200
Potencia Power(kw)	1.1	1.5	2.2	3	4	5.5	7.5
L2	66	73	73	99	138	138	146
G5	Ø200	Ø250	Ø250	Ø300	Ø350	Ø350	Ø400

EF..S97



EF..97ER57

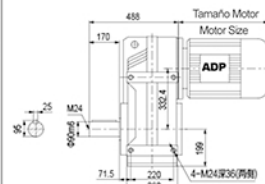


Tamaño Motor Motor Size	63	71	80	90	100
Potencia Power(kw)	0.12	0.18	0.25	0.37	0.55
L1	68	68	81.5	81.5	88.5
G5	Ø140	Ø160	Ø200	Ø200	Ø250

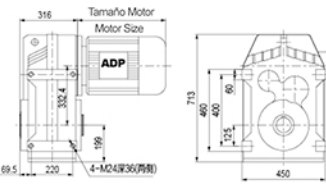
- Las carcasas anteriores son piezas comunes. Las dimensiones de montaje podrán consultarse entre sí.
- "EF.." significa todos los tipos de montaje de la serie EF.
- Los ejes de salida de EFA, EFAF, EFAZ, EFAB son piezas comunes y las dimensiones son las mismas.
- Con el tipo de montaje de placa de expansión, consulte P008 para conocer el tamaño detalles de placa de expansión.

- The housings above are common parts. The mounting dimensions may consult each other.
- "EF.." mean all mounting type of EF series.
- The output shafts of EFA, EFAF, EFAZ, EFAB are common parts, dimensions are the same.
- With expansion plate mounting type, see P008 for size details of expansion plate.

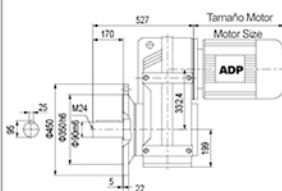
EF107



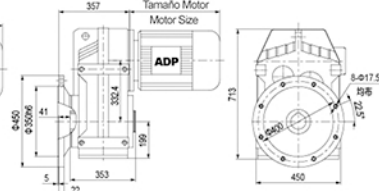
EFAB107



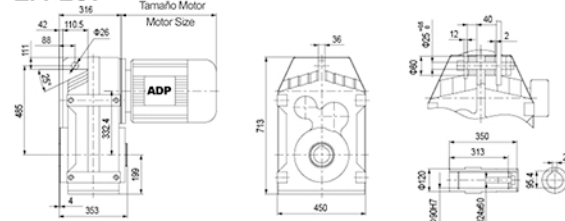
EFF107



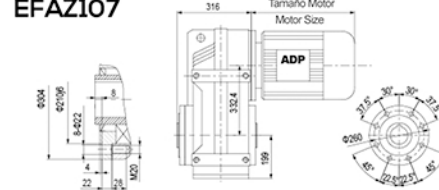
EFAF107



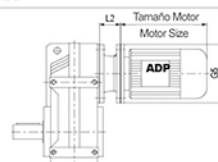
EFA107



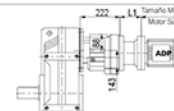
EFAZ107



EF..107



EF..107ER77



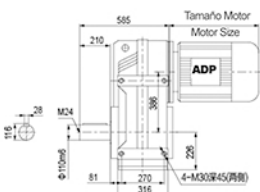
Tamaño Motor Motor Size	63	71	80	90	100	112
Potencia Power(kw)	0.12	0.18	0.25	0.37	0.55	0.75
L1	60.5	60.5	74	74	81	81
G5	Ø140	Ø160	Ø200	Ø200	Ø250	Ø250

- Las carcasas anteriores son piezas comunes. Las dimensiones de montaje podrán consultarse entre sí.
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- Con el tipo de montaje de placa de expansión, consulte P008 para conocer el tamaño detalles de placa de expansión.

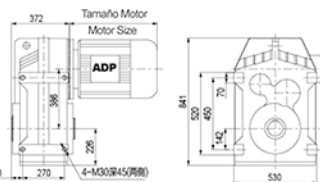
- The housings above are common parts. The mounting dimensions may consult each other.
- "EF.." mean all mounting type of EF series.
- The output shafts of EFA, EFAF, EFAZ, EFAB are common parts, dimensions are the same.
- With expansion plate mounting type, see P008 for size details of expansion plate.



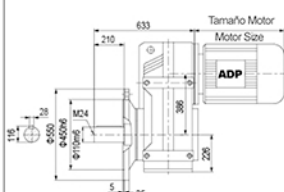
EF127



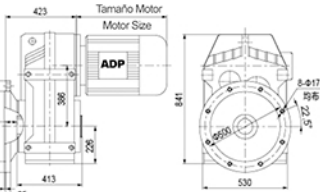
EFAB127



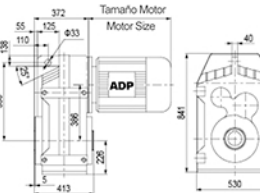
EFF127



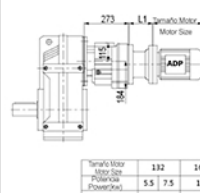
EFAF127



EFA127

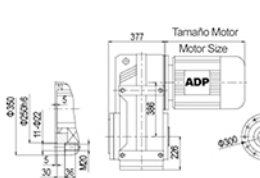


EF..127ER87

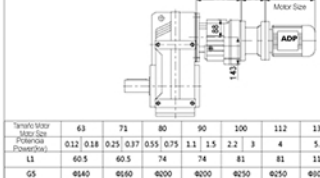


Tamaño Motor Motor Size	132	140
Potencia Power(kw)	5.5	7.5
L1	113	152
G5	Ø100	Ø150

EFAZ127



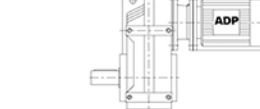
EF..127ER77



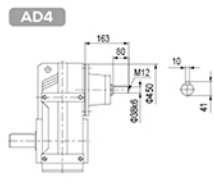
Los clientes proporcionan el motor ellos mismos y necesitan una brida conectada.
Customers provide the motor by themselves need connected flange

Tamaño Motor Motor Size	132	160	180	200	225	250	280
Potencia Power(kw)	7.5	11	15	18.5	22	30	37
L2	77	116	116	124	167	192	192
G5	Ø300	Ø350	Ø350	Ø400	Ø450	Ø550	Ø550

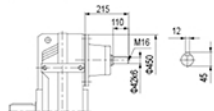
EF..127



EF..S127



AD4



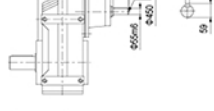
AD5



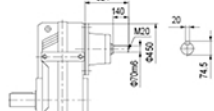
AD6



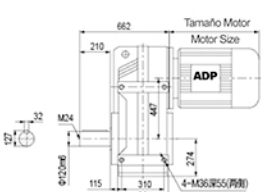
AD7



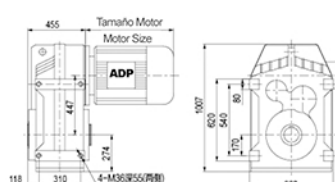
AD8



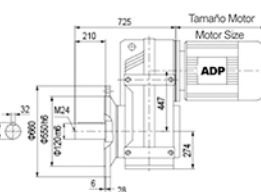
EF157



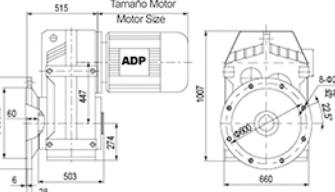
EFAB157



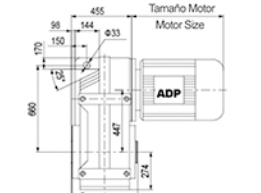
EFF157



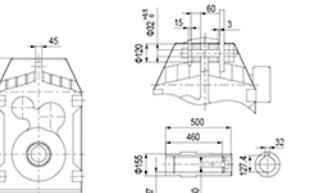
EFAF157



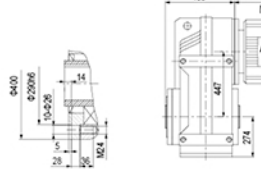
EFA157



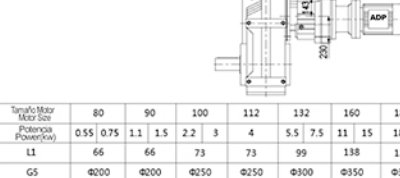
EFAZ157



EFAZ157

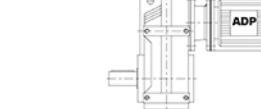


EF..157ER97



Tamaño Motor Motor Size	80	90	100	112	132	160	180
Potencia Power(kw)	0.55	0.75	1.1	1.5	2.2	3	4
L1	66	66	73	73	99	138	138
G5	Ø200	Ø200	Ø250	Ø250	Ø300	Ø350	Ø350

EF..157



Tamaño Motor Motor Size	160	180	200	225	250	280	315
Potencia Power(kw)	11	15	18.5	22	30	37	45
L2	112	112	120	163	183	183	196
G5	Ø350	Ø350	Ø400	Ø450	Ø550	Ø550	Ø660

1. Las carcasas anteriores son piezas comunes. Las dimensiones de montaje podrán consultarse entre sí.
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3. Los ejes de salida de EFA, EFAF, EFAZ, EFAB son piezas comunes y las dimensiones son las mismas.
4. Con el tipo de montaje de placa de expansión, consulte P008 para conocer el tamaño de detalles de placa de expansión.

1. The housings above are common parts. The mounting dimensions may consult each other.
2. "EF.." mean all mounting type of EF series.
3. The output shafts of EFA, EFAF, EFAZ, EFAB are common parts, dimensions are the same.
4. With expansion plate mounting type, see P008 for size details of expansion plate.

